Mountain Lion Sightings While Deer Hunting

Survey Response Analysis

October 31, 2002

License Year 2001

Harvest Surveys

Montana Fish Wildlife and Parks

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Introduction

This report contains and analysis and summary of information returned from a supplemental survey of license year 2001 (LY2001) Montana resident deer survey respondents contacted by phone and reporting active hunting for deer. These respondents were asked if they sighted mountain lions while deer hunting and, if so, the number observed in deer Districts hunted. The **Mountain Lion Sighting Survey** specifically requested only those mountain lions observed while actively hunting deer. Each sighting was linked to a specific deer hunter expending a specific number of hunter days in a specific deer District. Thus mountain lion observations could be directly related to deer hunting effort and analyzed as an extension of the LY2001 deer hunter response data analysis.

Estimates of the number of **deer hunters**, number of **hunter days** devoted to deer hunting, number of hunters which were also **lion observers**, and number of **lions sighted** while deer hunting are presented at five different **levels of Location: Statewide, Regional, Lion Management Area, Lion Regulations/Quota Unit, and Hunting District.** (See **Appendix A** for a listing defining the Areas and Units in terms of Hunting Districts.) **Confidence bounds** at the 80% significance level are given for these estimates along with a measure of **relative precision**, as are various meaningful **ratios** of statistics based on these estimates.

As mentioned above, the analysis of Mountain Lion Sighting Survey response data is closely tied to the analysis of Deer Survey response data. This supplemental survey allowed reporting the "Number of Lions Sighted" for each "Deer District–Hunter Days" entry reported on the Deer Survey. (See the **Deer Survey** and the **Mountain Lion Sighting Survey Questionnaire** enclosures.) **The Mountain Lion Sighting Survey was asked of Montana resident deer survey respondents contacted by phone and reporting active hunting for deer.** Information on number of lion observers and lions sighted was directly linked to the deer hunting response data set for this subset of resident deer survey respondents. **Summary statistics from sighting survey responses were expanded to statistical estimates using the Montana resident deer hunter expansion factor, 2.755**. (See the **2001 Deer Hunting Report – Introduction** for the derivation of this expansion factor, and an overview of deer survey response data analysis.) Though the resident deer hunting expansion factor was used throughout this report, **the resident deer respondent subset analyzed was slightly reduced from that used in the Deer Hunting Report**. A small percentage (1.80%) of resident deer survey respondents were contacted by mail. These were not surveyed for lion sighting information, and were excluded from lion sighting analysis. Throughout this report, estimates of deer hunters and effort will be slightly lower than the estimates presented in the Deer Hunting Report. **The underlying population of potential mountain lion observers considered here is the population of resident active deer hunters with home phones.**

Table 1: Statewide Overview of Deer Hunters and Harvest, and Lion Observers

Table 1 presents overall Statewide estimates based on responses to the most basic questions on the deer hunting/harvest and mountain lion sighting survey response forms:

- **Did you hunt deer?**
- **If you hunted for deer, how many deer did you kill?**
- **If you hunted for deer, did you see one or more Mountain Lions while hunting for deer?**

Statewide estimates of Deer Hunters, Successful Hunters, Deer Harvest, and Lion Observers are presented, along with upper and lower 80% confidence bounds, plus meaningful ratios based on these statistics. **Two differing views are presented.**

The first view provides statewide estimates, plus estimates by Conservation Prefix of the sportsperson. This is meant to provide information on differences in mountain lion observation reports due to the type of conservation license a sportsperson holds. **The following statistics are presented by Conservation Prefix:**

- **Deer Hunters:** Point estimate of number of active MT resident deer hunters.
- **Hunters Low Bnd:** Lower bound 80% confidence bound on hunters.
- **Hunters Up Bnd:** Upper bound 80% confidence bound on hunters.
- **Success Hunters:** Point estimate of number of successful MT deer hunters.
- **S Hunter Low Bnd:** Lower bound 80% confidence bound on successful hunters.
- **S Hunter Up Bnd:** Upper bound 80% confidence bound on successful hunters.
- **Deer Harvest:** Point estimate of number of deer harvested by successful hunters.
- **Harvest Low Bnd:** Lower bound 80% confidence bound on harvest.
- **Harvest Up Bnd:** Upper bound 80% confidence bound on harvest.
- **Percent Success:** Ratio of successful hunters to hunters. An estimate of percent of deer hunters who were successful.
- **Kill Per Hunter:** Ratio of harvest to hunters. An estimate of the number of deer killed per active hunter.
- **Mtn Lion Observers:** Point estimate of number of deer hunters observing one or more mountain lions while deer hunting. Lion Observers.
- **Observers Low Bnd:** Lower bound 80% confidence bound on lion observers.
- **Observers Up Bnd:** Upper bound 80% confidence bound on lion observers.
- **Pcnt Lion Observers:** Ratio of observers to hunters. An estimate of percent of deer hunters who were also lion observers.

The second view provides statewide estimates, estimates by Conservation Prefix of the sportsperson, and estimates by success of the deer hunter. This is meant to provide information on differences in mountain lion observation reports due to whether the hunter succeeded in killing one or more deer. **The following statistical estimates are presented by Conservation Prefix and Hunter Success: Deer Hunters, Hunters Low Bnd, Hunters Up Bnd, Mtn Lion Observers, Observers Low Bnd, Observers Up Bnd, Pcnt Lion Observers.** Estimates are defined as above.

The estimate of the population of statewide resident active deer hunters considered to be potential lion observers is 117,526 (±582 80% C.I., ±0.50% Relative Precision). Of these, 61% were successful, and they harvested an estimated 90,451 deer (±511, ±0.56%). Of this total population of active resident deer hunters, an estimated 1.93% observed one or more lions while deer hunting, for an estimate of 2,273 (±81, ±3.56%) resident deer hunters observing mountain lions while deer hunting. Percent Lion Observers was highest for "Resident Conservation Disabled - 34" and "Resident Sportsman with Bear - 11" holders (4.37%, 3.35%). It was lowest for "Youth Sportsman – 40" and "Flathead Reservation Conservation Disabled - 81" (1.42%, 0.00%). Successful resident deer hunters were somewhat less likely to report a lion observation while hunting as compared to unsuccessful deer hunters (2.03% vs 1.87%).

The estimated population of resident active deer hunters (potential lion observers) was slightly higher in 2001 as compared to 2000 (117,526 vs 117,436), though deer harvest was lower (90,451 vs 94,334). The estimated number of lion observers declined 26%, from 3,078 to 2,273. The percent of the population of deer hunters observing lions declined from 2.62% in 2000 down to 1.93% in 2001.

Table 2: Deer Hunting Effort and Lion Observations

Table 2 presents estimates based on responses to the following questions on the deer hunting/harvest and mountain lion sighting survey response forms:

- **If you hunted for deer, list the Days Hunted by Deer District?**
- **If you hunted for deer, did you see one or more Mountain Lions while hunting for deer?**
- **If you saw one or more Mountain Lions while hunting for deer, list the number seen by Deer District (as listed above).**

Estimates of Montana resident Deer Hunters, Districts Hunted, Hunter Days, Lion Observers, and Lions Seen are presented, along with meaningful ratios based on these statistics which relate lion observations to deer hunting effort. These estimates are presented at 5 different levels of Location: Statewide, Regional, Lion Management Area, Lion Regulations/Quota Unit, and the Deer Hunting District (same as Lion District). See **Appendix A** for the Districts included in each Management Area and Regs/Quota Unit. **The following statistics are presented by Location:**

- **Deer Hunters:** Point estimate of number of active MT resident deer hunters.
- **Districts Hunted:** Point estimate of number of Districts hunted by deer hunters. This is presented only at the State and Regional levels.
- **Hunter Days:** Point estimate of number of days or parts of days spent hunting by deer hunters.
- **Distric/Hunter:** Ratio of Districts Hunted to Hunters. An estimate of the average number of Districts hunted by a deer Hunter. This is presented only at the State and Regional levels.
- **Days/Hunter:** Ratio of Hunter Days to Hunters. An estimate of the average number of days spent deer hunting by a deer hunter.
- **Days/Distric:** Ratio of Hunter Days to Districts. An estimate of the average number of days spent hunting in a District by a deer hunter. This is presented only at the State and Regional levels.
- **Hunter Observ:** Point estimate of number of deer hunters observing one or more mountain lions while deer hunting. Lion Observers.
- **Distric Observ:** Point estimate of number of deer Districts where lions were observed by deer hunters. This is presented only at the State and Regional levels. Lion Observation Districts.
- **Observ Days:** Point estimate of number of days spent hunting by deer hunters in Districts where lions were observed. Observation Days.
- **Lions Seen:** Point estimate of number of lions seen by deer hunters while deer hunting.
- **Percent Observ:** Ratio of observers to hunters. An estimate of percent of deer hunters who were also lion observers.
- **Distric/Observ:** Ratio of Districts Hunted to Lion Observers. The expected number of Districts a deer Hunter needs to hunt deer to observe a mountain lion. This is presented only at the State and Regional levels.
- **Days/Observ:** Ratio of Hunter Days to Lion Observers. The expected number of days a deer hunter needs to hunt deer to observe a mountain lion.
- **Hunters/Lion:** Ratio of deer Hunters to Lions Seen. The expected number of active deer hunters needed in the field to observe one mountain lion.
- **Days/Lion:** Ratio of Hunter Days to Lions Seen. The expected number of days a deer hunter needs to hunt deer to observe one mountain lion.
- **Distric/Lion:** Ratio of Districts Hunted to Lions Seen. The expected number of Districts a deer Hunter needs to hunt deer to observe one mountain lion. This is presented only at the State and Regional levels.
- **Lions/Observ:** Ratio of Lions Seen to Lion Observers. An estimate of the average number of lions seen by a lion observer hunting for deer.

The ratios of statistical estimates presented in Table 2 provide standardized information regarding deer hunter effort, and how this effort relates to mountain lions observed. Districts/Hunter and Days/Hunter provide measures of deer hunting effort, standardized to the estimated number of deer hunters. These ratios provide more comparable measures of deer hunter effort over time, and between Locations, than do the underlying estimates themselves. For example, by Region during 2001, resident deer hunters expended most effort hunting deer in Region 2, and least in Region 5 (8.46 vs 4.56 days/hunter).

Percent Observers (Lion Observers/Deer Hunters) is the likelihood a deer hunter will see one or more lions while deer hunting. It could be used as an indicator of lion observability over time and between Locations. For example, by Region during 2001, resident deer hunters were most likely to see one or more lions in Region 2, and least likely in Region 6 (3.10% vs 0.26%). Lion Management Areas with the highest Percent Observers were R1-Cabinet-Yaak (M1A, 4.3%) and R2-Blackfoot (M2D, 3.3%). Hunting Districts with highest Percent Observers were 151, 316, and 425, at 11.1%, 8.3%, and 6.5% respectively.

Hunters/Lion is a similar measure of lion observability, standardized to the number of deer hunters. Instead of using number of lion observers, it uses number of lions seen. For example, by Region, it took the fewest number of deer hunters to see a lion in Region 2, and the most in Region 7 (21.3 vs 228 hunters/lion seen). Hunters/Lion may provided a finer measure of lion observability between Locations or over time, as compared to Percent Observers, but it may also be more subject to survey response bias. (The number of respondents reporting they saw Lion(s) by District may be more accurate and more stable over time than the number of lions reported in each District.)

Other possible indicators of mountain lion observability comparable over time and between locations include **Days/Observation** and **Days/Lion**. Here Lion Observers and Lions Seen are standardized to deer Hunter Days. Hunter days may be a more comparable measure of deer hunter effort than deer hunters, thus it may more directly standardize lion observability to deer hunting effort, and provide a more useful indicator of lion observability by Location and a more direct indicator of trends over time. For example, by Region, it requires the least number of deer Hunter Days to observe one or more lions in Region 1, and the most in Region 6 (254 vs 1888 days/observer). It requires the least number of deer Hunter Days to see a lion in Region 1, and the most in Region 7 (168 vs 1133 days/lion). The Lion Management Areas with the lowest deer hunter days per lion observation were R1-Cabinet-Yaak (M1A, 167) and R5-Mountain Foothills (M5B,182).

Statewide, the number of days required for the average active deer hunter to see a lion while hunting deer increased between 2000 and 2001 from 263 to 353 days. The number of hunter days per lion seen increased from 173 to 232. These indicators, and the decline in percent of hunters observing one or more lions from 2.62 to 1.93%, suggest it was more difficult to observe lions while deer hunting in 2001 than in 2000.

The ratio **Lions/Observer**, which standardizes lions seen to lion observers, may or may not be useful as a comparable indicator of lion observability, but it may prove useful in tracking lion sighting survey response characteristics over time. This indicator showed little change between 2000 and 2001 (1.525 vs 1.520).

Table 3: Statistical Confidence and Relative Precision

Table 3 presents measures of statistical confidence for the key estimates given in **Table 2**. Estimates of Montana resident Deer Hunters, Lion Observers, and Lions Seen are presented, along with Lower and Upper 80% Confidence Bounds, and Percent Relative Precision. As in **Table 2**, these estimates are presented at 5 different levels of Location: Statewide, Regional, Lion

Management Area, Lion Regulations/Quota Unit, and the Deer Hunting District. (See **Appendix A**.)
The following statistics are presented by Location:

- **Deer Hunters:** Point estimate of number of active MT resident deer hunters.
- **Hunters Low Bnd:** Lower bound 80% confidence bound on hunters.
- **Hunters Up Bnd:** Upper bound 80% confidence bound on hunters.
- **Hunter % RPrec:** Percent by which the upper 80% Confidence Bound differs from the point estimate for active MT resident deer hunters.
- **Hunter Observ:** Point estimate of number of deer hunters observing one or more mountain lions while deer hunting. Lion Observers.
- **Observ Low Bnd:** Lower bound 80% confidence bound on lion observers.
- **Observ Up Bnd:** Upper bound 80% confidence bound on lion observers.
- **Observ % RPrec:** Percent by which the upper 80% Confidence Bound differs from the point estimate for lion observers.
- **Lions Seen:** Point estimate of number of lions seen by deer hunters while deer hunting.
- **Lions Low Bnd:** Lower bound 80% confidence bound on lions seen.
- **Lions Up Bnd:** Upper bound 80% confidence bound on lions seen.
- **Lions % RPrec:** Percent by which the upper 80% Confidence Bound differs from the point estimate for lions seen.

Confidence bounds and percent relative precision are indicators of the statistical variability of an estimate. The wider the confidence bound relative to the value of the estimate, the higher the variability (uncertainty) in the estimate, and the lower our confidence the estimate comes close to the true value of the statistic. Percent relative precision presents the concept of variability (uncertainty) in a form that is comparable for differing measures of the same statistic. It standardizes the width of the confidence bound by comparing it to the value of the estimate. The lower the value of percent relative precision for an estimate, the lower the variability (uncertainty) in the estimate, and the greater our confidence the estimate comes close to the true value of the statistic.

Relative precision of a hunter survey estimate depends on the expansion factor used to expand the underlying survey response summary count into a statistical point estimate, and the size of the underlying survey response summary count. The expansion factor is basically the inverse of the response rate ("Number of Resident Deer License Holders" divided by "Number of Resident Deer License Holders Responding to the Deer Survey"). A low expansion factor (close to 1) indicates a high response rate, and relatively good statistical precision (low variability, low uncertainty) in the estimate, relative to a high expansion factor. The second factor influencing precision of a survey based estimate is the magnitude of the sum of raw survey responses to a question, such as "Did you Hunt?" (Hunter estimate), "How many Days? (Hunter Days estimate), "Did you see Lion(s)" (Lion Observer estimate), and "How many Lions did you see?" (Lions Seen estimate). Larger raw response tallies indicating hunting or lion observations result in relatively good statistical precision (low variability, low uncertainty) in the expanded estimate, relative to smaller raw response tallies. As responses are lumped into larger groupings, such as grouping responses by Hunting District into responses by Management Area, the underlying raw response tallies increase, therefore statistical precision in the expanded estimate improves (variability decreases).

The **LY2001 Deer Hunting Report** resident expansion factor (**2.755**) was used to estimate values of all the statistics in this report at all levels and values of Location. Thus, precision of estimates of deer hunting and lion sighting statistics will differ only according to the raw response tallies of the surveys returned from each Location. Estimates for hunting Districts popular with deer hunters will be more precise (better) than those from Districts less frequented. Sighting estimates from Districts where lions are more commonly observed will tend to be more precise (better) than those from Districts where lions are less common. This holds true for the higher levels of Location as well. Estimates at the higher levels of Location, which lump the survey responses into larger and larger groupings, will have better precision the more the responses are lumped together.

Table 3 illustrates the differences in Percent Relative Precision between different areas within the same level of Location, and differences between the different levels of Location. At the Hunting District level, average relative precision for estimates of Deer Hunters, Lion Observers, and Lions Seen were 7.2%, 56.9%, and 49.9%, respectively, over the 135 Districts where lions were reported. The estimates of active deer hunters have much better relative precision than the lion sighting estimates because few deer hunters observe lions (average of 1.93%), thus the raw tally of lion observer responses is very low compared to active deer hunter responses (**Appendix B**). Districts with the best relative precision in the estimate of Lion Observers are 100 (15.8%), 102 (19.0%), 103 (19.3%), and 101 (19.7%).

At the Lion Regulations/Quota Unit level of Location, average relative precision for the estimate of Lion Observers is 41.9% over the 73 Units where lions were reported. The 3 Regs/Quota Units with the best relative precision were R202 (15.8%), R202 (18.1%), and R283 (18.4%). Even though lion observability is low in the R700 Unit (% Observers=0.64%), the estimate of Lion Observers (85) has a good relative precision compared to other Units because it includes all of Region 7, a large area popular with deer hunters, and thus lumps together a large number of responding active hunters (4,836) compared to other Units, which are generally much smaller groupings of Districts with fewer respondents.

At the Lion Management Area level of Location, average relative precision for the estimate of Lion Observers was 34.2% over the 26 areas where lions were reported. The 3 Management Areas with the best relative precision were R1-Salish (M1C, 9.2%), R2-Blackfoot (M2D, 11.2%) and R4-Mountain Foothills (M4B, 12.5%).

At the Regional level of Location, average relative precision for the estimate of Lion Observers is 24.7% over the 8 Regions where lions were reported. Region 1 and 2 had the best relative precision in the estimate (6.8%), while Region 6 had the worst of the known Regions (34.1%). Relative precision in the Statewide estimate of Lion Observers is 3.56%. Confidence in the Statewide estimate of lion observers declined a bit between 2000 and 2001. (Percent relative precision increased from ±3.21% to ±3.56 of the value of the estimate.)

The precision of estimates will ultimately dictate how useful this survey of lion sightings by deer hunters will be as a trend indicator for lion density over time. Variability in the estimates must be low enough to permit detection of real underlying trends in lion density over time, at levels of Location which represent areas which are meaningful to lion management. Ratios of lion observation statistics to deer hunting effort statistics (see Table 2 description above) will likely prove more stable and more directly reflective of lion densities in a given area over time than will stand alone estimates of total Lion Observers or total Lions Seen.

Table 4: Additional Lion Observation Statistics

Table 4 presents additional estimates and ratios of estimates based on responses to questions on the deer hunting/harvest and mountain lion sighting survey response forms. Estimates of MT resident Deer Hunters, Lion Observers, Lion Observation Districts, Lion Observation Days, and Lions Seen are presented, along with meaningful ratios of lion observation statistics. The additional statistics presented here may prove of some value in helping detect trends in lion densities, or trends in survey response characteristics, over time. These estimates are presented at 5 different levels of Location: Statewide, Regional, Lion Management Area, Lion Regulations/Quota Unit, and the Deer Hunting District. **The following statistics are presented by Location:**

- **Deer Hunters:** Point estimate of number of active MT resident deer hunters.
- **Hunter Observ:** Point estimate of number of deer hunters observing one or more mountain lions while deer hunting. Lion Observers.

- **Distric Observ:** Point estimate of number of deer Districts where lions were observed by deer hunters. This is presented only at the State and Regional levels. Lion Observation Districts.
- **Observ Days:** Point estimate of number of days spent hunting by deer hunters in Districts where lions were observed. Observation Days.
- **Lions Seen:** Point estimate of number of lions seen by deer hunters while deer hunting.
- **Percent Observ:** Ratio of observers to hunters. An estimate of percent of deer hunters who were also lion observers.
- **Lions/Observ:** Ratio of Lions Seen to Lion Observers. An estimate of the average number of lions seen by a lion observer hunting for deer.
- **ObsDist/Observ:** Ratio of Lion Observation Districts to Lion Observers. The average number of Districts in which a Lion Observer see lions. This is presented only at the State and Regional levels.
- **ObsDays/Observ:** Ratio of Observer Days to Lion Observers. The average number of observation days a lion observer needs to observe mountain lions.
- **ObsDays/ObsDist:** Ratio of Observer Days to Observation Districts. The average number of observation days a spent hunting in Districts where lions were observed.
- **Lions/ObsDay:** Ratio of Lions Seen to Observer Days. An estimate of the average number of lions seen per observation day.
- **Lions/ObsDist:** Ratio of Lion Seen to Lion Observation Districts. The average number of lions seen per lion observation District. This is presented only at the State and Regional levels.

Appendix A: Lion Mgmt Areas, Regs/Quota Units, and Districts

Appendix A presents Lion Hunting Districts (same as Deer Districts) sorted by Region and Management Area. Descriptive names of Management Areas are given. Lion Regulation/Quota Units are also defined. This table shows which Districts are grouped into the higher levels of Location, as used in this report.

Appendix B: Non-expanded Response Summary Statistics

Appendix B presents the non-expanded raw summary tallies of the linked Deer Hunter and Lion Sighting Survey responses. Tallies of responding Deer Hunters and Lion Observers are listed, along with sums of reported Districts Hunted, Hunter Days, Observation Districts, Observation Days, and Lions Seen. The ratio Percent Observers is also given. These raw response statistics are presented at 5 different levels of Location: Statewide, Regional, Lion Management Area, Lion Regulations/Quota Unit, and the Deer Hunting District. **The following statistics are presented by Location:**

- **Responding Hunters:** Number of MT resident deer survey respondents reporting active hunting.
- **District Hunted:** Sum of Districts hunted for active MT resident deer survey respondents.
- **Hunter Days:** Sum of hunter days for active MT resident deer survey respondents.
- **Hunter Observ:** Number of active MT resident deer survey respondents reporting the sighting of one or more mountain lions while deer hunting. Respondent Lion Observers.
- **Distric Observ:** Sum of Districts reported where lions were observed by active MT resident deer survey respondents.
- **Observ Days:** Sum of hunter days reported where lions were observed by active MT resident deer survey respondents.
- **Lions Seen:** Sum of reported lions seen by active MT resident deer survey respondents.

- **Percent Observ**: Ratio of Responding Active Hunters to Respondent Lion Observers. An estimate of percent of deer hunters who were also lion observers.

Note that all the ratios of mountain lion sighting and deer hunting effort estimates provided in **Tables 2 and 4** can be computed from the underlying response summary statistics given in **Appendix B**. They remain the same whether computed from the underlying raw tallies and sums, or the expanded statistical estimates. Ratios of non-expanded summary statistics estimate true values of meaningful population statistics. Thus, it is not necessary to expand the survey response summary statistics to obtain potentially meaningful indicators of mountain lion density.

Appendix C: Statistical Estimates Data File Description

Appendix C presents a description of a data file of expanded estimates of "Mountain Lion Sighting while Deer Hunting" survey statistics. This data set contains all the estimates used to generate **Tables 2, 3, and 4**. It is available in compressed form for electronic distribution. It can be imported into a variety of data handling software. For example, this data set can be imported into a spreadsheet and sorted, selected, and formatted as desired for tabular or graphical presentation.

2001
Mountain Lion Sightings
While Deer Hunting

Tables of Expanded
Statistical Estimates

Table 1
Statewide Overview of Montana Resident
Deer Hunters and Harvest, and Lion Observers

Table 2
Deer Hunting Effort and Lion Observations

Table 3
Statistical Confidence and Relative Precision

Table 4
Additional Lion Observation Statistics

Tables 2, 3, and 4 presented by Location as follows:

Statewide and Regional
By Lion Management Area
By Lion Regulations/Quota Unit
By Hunting District

TABLE 1: STATEWIDE OVERVIEW

Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Statewide Deer Hunters and Harvest, and Lion Observers
By Conservation Prefix of Hunter

Cons Pfx	Conservation License Name	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Success Hunters	S Hunter Low Bnd	S Hunter Up Bnd	Deer Harvest	Harvest Low Bnd	Harvest Up Bnd	Percent Success	Kill Per Hunter	Mtn Lion Observers	Observers Low Bnd	Observers Up Bnd	Pcnt Lion Observers
ALL	All MT Resident	117,526	116,944	118,109	71,598	71,144	72,053	90,451	89,940	90,962	60.9	0.770	2,273	2,192	2,354	1.93
09	Sports no Bear	10,859	10,682	11,036	6,541	6,404	6,679	8,751	8,592	8,910	60.2	0.806	209	185	234	1.93
11	Sports w/ Bear	13,262	13,066	13,458	8,363	8,208	8,518	11,543	11,360	11,725	63.1	0.870	444	408	479	3.35
12	R Conservation	43,851	43,495	44,206	26,367	26,091	26,643	31,713	31,410	32,015	60.1	0.723	634	591	677	1.45
19	R Cons w/ Fish	40,966	40,622	41,309	24,841	24,573	25,108	31,443	31,141	31,744	60.6	0.768	796	748	844	1.94
34	R Cons Disabled	2,017	1,941	2,093	1,353	1,290	1,415	1,810	1,738	1,883	67.1	0.898	88	72	104	4.37
40	Youth Sports	4,778	4,661	4,895	3,067	2,973	3,161	3,783	3,679	3,888	64.2	0.792	77	62	92	1.61
74	Flathead Cons	1,744	1,673	1,815	1,031	976	1,085	1,367	1,304	1,430	59.1	0.784	25	16	33	1.42
81	FH Cons Disabled	50	38	62	36	26	46	41	30	52	72.2	0.833	0	0	0	0.00

By Conservation Prefix and Success of Hunter

Cons Pfx	Conservation License Name	Killed a Deer	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Mtn Lion Observers	Observers Low Bnd	Observers Up Bnd	Pcnt Lion Observers
ALL	All MT Resident	All	117,526	116,944	118,109	2,273	2,192	2,354	1.93
		No	45,928	45,564	46,292	934	882	986	2.03
		Yes	71,598	71,144	72,053	1,339	1,277	1,401	1.87
09	Sports no Bear	All	10,859	10,682	11,036	209	185	234	1.93
		No	4,318	4,206	4,429	99	82	116	2.30
		Yes	6,541	6,404	6,679	110	92	128	1.68
11	Sports w/ Bear	All	13,262	13,066	13,458	444	408	479	3.35
		No	4,899	4,780	5,018	163	141	184	3.32
		Yes	8,363	8,208	8,518	281	253	310	3.36
12	R Conservation	All	43,851	43,495	44,206	634	591	677	1.45
		No	17,483	17,259	17,708	303	274	333	1.73
		Yes	26,367	26,091	26,643	331	300	362	1.25
19	R Cons w/ Fish	All	40,966	40,622	41,309	796	748	844	1.94
		No	16,125	15,909	16,341	306	276	336	1.90
		Yes	24,841	24,573	25,108	490	453	528	1.97
34	R Cons Disabled	All	2,017	1,941	2,093	88	72	104	4.37
		No	664	620	708	28	19	36	4.15
		Yes	1,353	1,290	1,415	61	47	74	4.48
40	Youth Sports	All	4,778	4,661	4,895	77	62	92	1.61
		No	1,711	1,641	1,781	28	19	36	1.61
		Yes	3,067	2,973	3,161	50	38	62	1.62
74	Flathead Cons	All	1,744	1,673	1,815	25	16	33	1.42
		No	714	668	759	8	3	13	1.16
		Yes	1,031	976	1,085	17	10	23	1.60
81	FH Cons Disabled	All	50	38	62	0	0	0	0.00
		No	14	7	20	0	0	0	0.00
		Yes	36	26	46	0	0	0	0.00

TABLE 2: DEER HUNTING EFFORT AND LION OBSERVATIONS

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Deer Hunting Effort and Lion Observations
Statewide and Regional

Location	Deer Hunters	District Hunted	Hunter Days	Distric /Hunter	Days/ Hunter	Days/ Distric	Hunter Observ	Distric Observ	Observ Days	Lions Seen	Percent Observ	Distric /Observ	Days/ Observ	Hunters /Lion	Days /Lion	Distric /Lion	Lions/ Observ
State	117,526	156,337	802,112	1.33	6.82	5.13	2,273	2,337	20,589	3,455	1.93	68.77	352.85	34.01	232.14	45.24	1.52
Region 1	20,641	26,858	157,442	1.30	7.63	5.86	620	637	5,886	937	3.00	43.32	253.95	22.03	168.05	28.67	1.51
Region 2	19,974	26,406	169,021	1.32	8.46	6.40	620	639	5,968	937	3.10	42.59	272.62	21.32	180.41	28.19	1.51
Region 3	23,821	29,277	157,445	1.23	6.61	5.38	386	391	3,621	598	1.62	75.89	408.14	39.84	263.31	48.96	1.55
Region 4	24,926	30,938	131,494	1.24	5.28	4.25	295	300	2,612	479	1.18	104.93	445.99	51.99	274.26	64.53	1.63
Region 5	15,910	17,913	72,507	1.13	4.56	4.05	254	254	1,653	342	1.59	70.66	286.02	46.56	212.21	52.43	1.35
Region 6	9,418	10,468	46,821	1.11	4.97	4.47	25	25	182	41	0.26	422.11	1888.00	227.87	1132.80	253.27	1.67
Region 7	13,348	14,359	66,666	1.08	4.99	4.64	85	88	653	110	0.64	168.10	780.45	121.10	604.85	130.28	1.29
Region U	118	118	716	1.00	6.05	6.05	3	3	14	11	2.33	43.00	260.00	10.75	65.00	10.75	4.00

TABLE 2: DEER HUNTING EFFORT AND LION OBSERVATIONS

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Deer Hunting Effort and Lion Observations
By Lion Management Area

Location	Lion Mgmt Area Name	Deer Hunters	Hunter Days	Days/ Hunter	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Days/ Observ	Hunters /Lion	Days /Lion	Lions/ Observ
M1A	CABINET-YAAK	3,657	26,160	7.15	157	1,527	270	4.30	166.56	13.54	96.88	1.72
M1B	CLARK FORK	2,789	22,333	8.01	36	488	36	1.28	623.46	77.85	623.46	1.00
M1C	SALISH	11,876	76,803	6.47	339	3,196	490	2.85	226.61	24.21	156.59	1.45
M1D	BOB MARSHALL-MISSIONS	3,386	19,699	5.82	52	435	88	1.55	376.26	38.41	223.41	1.68
M1E	WHITEFISH	1,590	7,991	5.03	39	212	50	2.43	207.14	32.06	161.11	1.29
M1F	URBAN	805	4,194	5.21	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
M1U	REGION 1 UNKNOWN	61	262	4.32	3	28	3	4.55	95.00	22.00	95.00	1.00
M2A	LOWER CLARK FORK	4,445	33,349	7.50	141	1,664	226	3.16	237.31	19.67	147.60	1.61
M2B	BITTERROOT	7,594	61,871	8.15	157	1,540	220	2.07	393.93	34.45	280.68	1.40
M2C	ROCK CR-DEERLODGE	3,356	26,888	8.01	94	981	149	2.79	287.00	22.56	180.70	1.59
M2D	BLACKFOOT	7,015	46,391	6.61	231	1,711	336	3.30	200.43	20.87	138.00	1.45
M2U	REGION 2 UNKNOWN	72	521	7.27	6	72	6	7.69	94.50	13.00	94.50	1.00
M3A	BIGHOLE	3,893	27,987	7.19	63	595	91	1.63	441.61	42.82	307.79	1.43
M3B	GRAVELLYS-PIONEERS	7,159	39,491	5.52	110	749	163	1.54	358.30	44.03	242.92	1.48
M3C	YELLOWSTONE	4,717	26,163	5.55	50	463	61	1.05	527.50	77.82	431.59	1.22
M3D	BELTS-BRIDGERS-ELKHORN	10,589	63,690	6.01	168	1,813	284	1.59	378.92	37.31	224.41	1.69
M3U	REGION 3 UNKNOWN	33	113	3.42	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
M4A	EAST FRONT	2,929	13,626	4.65	44	422	77	1.51	309.06	37.96	176.61	1.75
M4B	MOUNTAIN-FOOTHILLS	12,309	63,279	5.14	185	1,764	298	1.50	342.76	41.36	212.64	1.61
M4C	PRAIRE-AGRICULTURE	12,309	54,073	4.39	66	413	102	0.54	817.67	120.73	530.38	1.54
M4U	REGION 4 UNKNOWN	124	515	4.16	3	14	3	2.22	187.00	45.00	187.00	1.00
M5A	BEARTOOTH FACE	2,670	11,107	4.16	33	212	39	1.24	335.92	69.21	287.93	1.17
M5B	MOUNTAIN FOOTHILLS	3,229	13,050	4.04	72	551	110	2.22	182.15	29.30	118.40	1.54
M5C	PRAIRE-AGRICULTURE	10,997	48,031	4.37	146	879	190	1.33	328.89	57.84	252.62	1.30
M5U	REGION 5 UNKNOWN	74	320	4.30	3	11	3	3.70	116.00	27.00	116.00	1.00
M6A	REGION 6 DISTRICTS	9,410	46,796	4.97	25	182	41	0.26	1887.00	227.67	1132.20	1.67
M6U	REGION 6 UNKNOWN	8	25	3.00	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
M7A	REGION 7 DISTRICTS	13,325	66,569	5.00	85	653	110	0.64	779.32	120.90	603.98	1.29
M7U	REGION 7 UNKNOWN	22	96	4.38	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
M9U	REGION UNKNOWN	118	716	6.05	3	14	11	2.33	260.00	10.75	65.00	4.00

TABLE 2: DEER HUNTING EFFORT AND LION OBSERVATIONS

Thu Oct 31 page 1

Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Deer Hunting Effort and Lion Observations
By Lion Regulations/Quota Unit

Location	Lion Regs/Quota Unit HDs	Deer Hunters	Hunter Days	Days/ Hunter	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Days/ Observ	Hunters /Lion	Days /Lion	Lions/ Observ
R100	HD:100	2,568	15,698	6.11	116	1,177	190	4.51	135.64	13.51	82.57	1.64
R101	HD:101	2,375	15,260	6.42	74	923	124	3.13	205.11	19.16	123.07	1.67
R102	HD:102	3,279	16,974	5.18	80	639	105	2.44	212.41	31.32	162.11	1.31
R103	HD:103	3,469	19,867	5.73	77	697	116	2.22	257.50	29.98	171.67	1.50
R104	HD:104	1,678	10,463	6.23	47	350	80	2.79	223.35	21.00	130.93	1.71
R110	HD:110	1,590	7,991	5.03	39	212	50	2.43	207.14	32.06	161.11	1.29
R120	HD:120	2,408	12,568	5.22	58	581	77	2.40	217.19	31.21	162.89	1.33
R121	HD:121	2,105	15,557	7.39	30	400	30	1.44	513.27	69.45	513.27	1.00
R122	HD:122	2,039	12,135	5.95	52	355	69	2.57	231.79	29.60	176.16	1.32
R123	HD:123	416	2,824	6.79	6	88	6	1.32	512.50	75.50	512.50	1.00
R124	HD:124	457	3,951	8.64	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
R130	HD:130	1,786	9,099	5.10	30	265	58	1.70	300.18	30.86	157.24	1.91
R132	HD:132,170	1,887	11,466	6.07	11	113	17	0.58	1040.25	114.17	693.50	1.50
R140	HD:140	430	2,006	4.67	8	33	8	1.92	242.67	52.00	242.67	1.00
R141	HD:141	146	829	5.68	3	6	3	1.89	301.00	53.00	301.00	1.00
R150	HD:150,151	88	493	5.59	3	19	3	3.13	179.00	32.00	179.00	1.00
R199	HD:R1 UNKN	61	262	4.32	3	28	3	4.55	95.00	22.00	95.00	1.00
R200	HD:200,201	2,342	16,533	7.06	55	692	94	2.35	300.00	25.00	176.47	1.70
R202	HD:202,203	2,651	16,817	6.34	88	973	132	3.33	190.72	20.04	127.15	1.50
R204	HD:204,260,261	3,905	29,693	7.60	61	532	88	1.55	489.82	44.28	336.75	1.45
R210	HD:210,211,216	1,290	8,388	6.50	50	452	85	3.85	169.11	15.10	98.19	1.72
R212	HD:212,215	1,728	14,166	8.20	41	468	58	2.39	342.73	29.86	244.81	1.40
R213	HD:213,214	579	4,334	7.49	6	61	6	0.95	786.50	105.00	786.50	1.00
R240	HD:240	2,053	12,262	5.97	33	284	47	1.61	370.83	43.82	261.76	1.42
R250	HD:250	1,116	8,454	7.58	41	485	61	3.70	204.53	18.41	139.45	1.47
R270	HD:270	1,874	11,463	6.12	22	240	25	1.18	520.00	75.56	462.22	1.13
R280	HD:280,281,284,293	2,028	13,438	6.63	74	733	102	3.67	180.63	19.89	131.81	1.37
R282	HD:282	182	846	4.65	6	33	6	3.03	153.50	33.00	153.50	1.00
R283	HD:283,285	2,979	16,312	5.48	85	482	124	2.87	190.97	24.02	131.56	1.45
R290	HD:290,291,292	2,491	15,794	6.34	69	463	105	2.77	229.28	23.79	150.84	1.52
R299	HD:R2 UNKN	72	521	7.27	6	72	6	7.69	94.50	13.00	94.50	1.00
R300	HD:300,302,328,329	1,113	6,357	5.71	22	152	25	1.98	288.38	44.89	256.33	1.13
R301	HD:301	995	5,348	5.38	8	124	17	0.83	647.00	60.17	323.50	2.00
R310	HD:310,311,360,361,362	2,576	13,912	5.40	19	143	22	0.75	721.29	116.88	631.12	1.14
R312	HD:312,393	2,631	13,775	5.23	41	504	52	1.57	333.27	50.26	263.11	1.27
R313	HD:313,316	317	1,394	4.40	8	58	8	2.61	168.67	38.33	168.67	1.00
R314	HD:314	609	2,910	4.78	8	36	8	1.36	352.00	73.67	352.00	1.00
R315	HD:315	1,722	6,787	3.94	14	66	25	0.80	492.60	69.44	273.67	1.80
R317	HD:317	595	2,598	4.37	6	102	6	0.93	471.50	108.00	471.50	1.00
R318	HD:318,350	769	6,194	8.06	17	132	28	2.15	374.67	27.90	224.80	1.67
R319	HD:319,341	942	6,486	6.88	19	212	22	2.05	336.29	42.75	294.25	1.14
R320	HD:320,333	2,604	12,992	4.99	47	361	69	1.80	277.35	37.80	188.60	1.47
R321	HD:321,331,332	1,794	12,116	6.75	30	218	50	1.69	399.73	36.17	244.28	1.64
R322	HD:322,326,330	2,494	11,678	4.68	25	176	39	0.99	470.89	64.64	302.71	1.56
R323	HD:323,324,325,327	1,521	8,465	5.57	17	61	30	1.09	512.00	50.18	279.27	1.83
R335	HD:335,339,343	1,893	12,328	6.51	25	267	52	1.31	497.11	36.16	235.47	2.11
R340	HD:340	1,518	9,385	6.18	14	165	19	0.91	681.20	78.71	486.57	1.40
R370	HD:370,380	2,262	12,493	5.52	36	444	58	1.58	348.77	39.10	215.90	1.62
R390	HD:390,391,392	1,937	12,113	6.25	36	400	69	1.85	338.15	28.12	175.84	1.92
R399	HD:R3 UNKN	33	113	3.42	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
R400	HD:400,401,403,406,415,441	4,122	18,941	4.59	11	36	22	0.27	1718.50	187.00	859.25	2.00
R404	HD:404,421,444,450	3,392	14,025	4.13	22	171	33	0.65	636.25	102.58	424.17	1.50
R405	HD:405,447,471	4,114	16,671	4.05	19	171	19	0.47	864.29	213.29	864.29	1.00
R410	HD:410,417,419,426	3,006	12,703	4.23	28	154	44	0.92	461.00	68.19	288.13	1.60
R411	HD:411,412	4,348	21,776	5.01	66	805	118	1.52	329.29	36.70	183.79	1.79
R413	HD:413,432	3,144	14,298	4.55	30	204	50	0.96	471.73	63.39	288.28	1.64
R416	HD:416,446,449,452,454	2,196	11,642	5.30	50	482	74	2.26	234.72	29.52	156.48	1.50
R418	HD:418,420,448	1,637	8,625	5.27	14	61	19	0.84	626.00	84.86	447.14	1.40
R422	HD:422,423,424,425,442	1,168	5,359	4.59	30	303	61	2.59	176.82	19.27	88.41	2.00
R445	HD:445,455	1,887	6,938	3.68	25	212	36	1.31	279.78	52.69	193.69	1.44
R499	HD:R4 UNKN	124	515	4.16	3	14	3	2.22	187.00	45.00	187.00	1.00
R500	HD:500,570	3,293	12,254	3.72	30	303	47	0.92	404.27	70.29	261.59	1.55
R502	HD:502,575	3,946	17,194	4.36	50	242	72	1.26	346.67	55.08	240.00	1.44
R510	HD:510	526	2,764	5.25	30	251	36	5.76	91.18	14.69	77.15	1.18
R511	HD:511	681	2,237	3.29	8	110	8	1.21	270.67	82.33	270.67	1.00
R520	HD:520	1,516	6,577	4.34	22	171	28	1.45	298.38	55.00	238.70	1.25
R530	HD:530,590	4,296	18,583	4.33	66	333	72	1.54	281.00	59.96	259.38	1.08
R540	HD:540	609	2,560	4.20	11	91	19	1.81	232.25	31.57	132.71	1.75
R560	HD:560	1,174	4,530	3.86	11	41	11	0.94	411.00	106.50	411.00	1.00
R580	HD:580	1,527	5,489	3.60	22	99	47	1.44	249.00	32.59	117.18	2.13
R599	HD:R5 UNKN	74	320	4.30	3	11	3	3.70	116.00	27.00	116.00	1.00

TABLE 2: DEER HUNTING EFFORT AND LION OBSERVATIONS

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Deer Hunting Effort and Lion Observations
By Lion Regulations/Quota Unit

Location	Lion Regs/Quota Unit HDs	Deer Hunters	Hunter Days	Days/ Hunter	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Days/ Observ	Hunters /Lion	Days /Lion	Lions/ Observ
R600	HD:600'S (NOT 680,690)	7,255	36,510	5.03	11	52	14	0.15	3312.50	526.60	2650.00	1.25
R680	HD:680,690	2,348	10,286	4.38	14	130	28	0.59	746.60	85.20	373.30	2.00
R699	HD:R6 UNKN	8	25	3.00	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
R700	HD:700'S	13,325	66,569	5.00	85	653	110	0.64	779.32	120.90	603.98	1.29
R799	HD:R7 UNKN	22	96	4.38	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
R999	HD:REGION UNKN	118	716	6.05	3	14	11	2.33	260.00	10.75	65.00	4.00

TABLE 2: DEER HUNTING EFFORT AND LION OBSERVATIONS

Thu Oct 31 page 1

Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Deer Hunting Effort and Lion Observations
By Deer Hunting District

Location	Deer Hunters	Hunter Days	Days/ Hunter	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Days/ Observ	Hunters /Lion	Days /Lion	Lions/ Observ
100	2,568	15,698	6.11	116	1,177	190	4.51	135.64	13.51	82.57	1.64
101	2,375	15,260	6.42	74	923	124	3.13	205.11	19.16	123.07	1.67
102	3,279	16,974	5.18	80	639	105	2.44	212.41	31.32	162.11	1.31
103	3,469	19,867	5.73	77	697	116	2.22	257.50	29.98	171.67	1.50
104	1,678	10,463	6.23	47	350	80	2.79	223.35	21.00	130.93	1.71
110	1,590	7,991	5.03	39	212	50	2.43	207.14	32.06	161.11	1.29
120	2,408	12,568	5.22	58	581	77	2.40	217.19	31.21	162.89	1.33
121	2,105	15,557	7.39	30	400	30	1.44	513.27	69.45	513.27	1.00
122	2,039	12,135	5.95	52	355	69	2.57	231.79	29.60	176.16	1.32
123	416	2,824	6.79	6	88	6	1.32	512.50	75.50	512.50	1.00
124	457	3,951	8.64	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
130	1,786	9,099	5.10	30	265	58	1.70	300.18	30.86	157.24	1.91
132	1,157	7,272	6.28	11	113	17	0.95	659.75	70.00	439.83	1.50
140	430	2,006	4.67	8	33	8	1.92	242.67	52.00	242.67	1.00
141	146	829	5.68	3	6	3	1.89	301.00	53.00	301.00	1.00
150	63	347	5.48	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
151	25	146	5.89	3	19	3	11.11	53.00	9.00	53.00	1.00
170	805	4,194	5.21	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
199	61	262	4.32	3	28	3	4.55	95.00	22.00	95.00	1.00
200	700	4,836	6.91	11	174	14	1.57	438.75	50.80	351.00	1.25
201	1,755	11,697	6.66	44	518	80	2.51	265.31	21.97	146.38	1.81
202	1,516	10,068	6.64	30	358	33	2.00	332.18	45.83	304.50	1.09
203	1,237	6,748	5.45	61	614	99	4.90	111.32	12.47	68.03	1.64
204	1,799	10,683	5.94	36	193	44	1.99	298.23	40.81	242.31	1.23
210	907	5,450	6.01	30	289	55	3.34	179.82	16.45	98.90	1.82
211	226	1,758	7.78	14	80	19	6.10	127.60	11.71	91.14	1.40
212	1,091	8,542	7.83	22	278	33	2.02	387.50	33.00	258.33	1.50
213	344	2,395	6.95	6	61	6	1.60	434.50	62.50	434.50	1.00
214	281	1,940	6.90	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
215	738	5,624	7.62	19	190	25	2.61	291.57	29.78	226.78	1.29
216	226	1,179	5.22	6	83	11	2.44	214.00	20.50	107.00	2.00
240	2,053	12,262	5.97	33	284	47	1.61	370.83	43.82	261.76	1.42
250	1,116	8,454	7.58	41	485	61	3.70	204.53	18.41	139.45	1.47
260	1,576	14,177	8.99	11	242	11	0.70	1286.25	143.00	1286.25	1.00
261	783	4,833	6.18	14	96	33	1.76	350.80	23.67	146.17	2.40
270	1,874	11,463	6.12	22	240	25	1.18	520.00	75.56	462.22	1.13
280	141	774	5.51	6	14	8	3.92	140.50	17.00	93.67	1.50
281	1,011	6,324	6.25	44	501	55	4.36	143.44	18.35	114.75	1.25
282	182	846	4.65	6	33	6	3.03	153.50	33.00	153.50	1.00
283	1,317	6,801	5.16	28	146	36	2.09	246.80	36.77	189.85	1.30
284	165	953	5.77	6	55	8	3.33	173.00	20.00	115.33	1.50
285	1,821	9,512	5.22	58	336	88	3.18	164.38	20.66	107.88	1.52
290	179	1,364	7.62	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
291	526	2,973	5.65	11	83	14	2.09	269.75	38.20	215.80	1.25
292	1,865	11,457	6.14	58	380	91	3.10	198.00	20.52	126.00	1.57
293	904	5,387	5.96	19	163	30	2.13	279.29	29.82	177.73	1.57
299	72	521	7.27	6	72	6	7.69	94.50	13.00	94.50	1.00
300	234	1,279	5.46	6	39	6	2.35	232.00	42.50	232.00	1.00
301	995	5,348	5.38	8	124	17	0.83	647.00	60.17	323.50	2.00
302	295	1,268	4.30	6	33	6	1.87	230.00	53.50	230.00	1.00
310	209	871	4.16	3	6	3	1.32	316.00	76.00	316.00	1.00
311	1,750	8,908	5.09	11	124	14	0.63	808.25	127.00	646.60	1.25
312	1,637	8,999	5.50	28	424	36	1.68	326.60	45.69	251.23	1.30
313	284	1,301	4.58	6	50	6	1.94	236.00	51.50	236.00	1.00
314	609	2,910	4.78	8	36	8	1.36	352.00	73.67	352.00	1.00
315	1,722	6,787	3.94	14	66	25	0.80	492.60	69.44	273.67	1.80
316	33	94	2.83	3	8	3	8.33	34.00	12.00	34.00	1.00
317	595	2,598	4.37	6	102	6	0.93	471.50	108.00	471.50	1.00
318	350	2,868	8.20	8	77	14	2.36	347.00	25.40	208.20	1.67
319	637	4,130	6.49	11	116	11	1.73	374.75	57.75	374.75	1.00
320	857	4,748	5.54	19	196	36	2.25	246.14	23.92	132.54	1.86
321	350	1,885	5.39	6	113	8	1.57	342.00	42.33	228.00	1.50
322	1,196	4,469	3.74	14	91	25	1.15	324.40	48.22	180.22	1.80
323	220	1,088	4.94	8	25	22	3.75	131.67	10.00	49.38	2.67
324	455	2,670	5.87	3	14	3	0.61	969.00	165.00	969.00	1.00
325	727	3,618	4.97	6	22	6	0.76	656.50	132.00	656.50	1.00

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Deer Hunting Effort and Lion Observations
By Deer Hunting District

Location	Deer Hunters	Hunter Days	Days/ Hunter	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Days/ Observ	Hunters /Lion	Days /Lion	Lions/ Observ
326	829	3,940	4.75	6	61	8	0.66	715.00	100.33	476.67	1.50
327	196	1,088	5.56	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
328	198	1,127	5.68	6	44	8	2.78	204.50	24.00	136.33	1.50
329	482	2,684	5.57	6	36	6	1.14	487.00	87.50	487.00	1.00
330	601	3,268	5.44	6	25	6	0.92	593.00	109.00	593.00	1.00
331	1,152	7,947	6.90	22	99	39	1.91	360.50	29.86	206.00	1.75
332	408	2,284	5.60	3	6	3	0.68	829.00	148.00	829.00	1.00
333	1,791	8,244	4.60	28	165	33	1.54	299.20	54.17	249.33	1.20
335	598	3,968	6.64	8	99	19	1.38	480.00	31.00	205.71	2.33
339	683	3,968	5.81	3	33	8	0.40	1440.00	82.67	480.00	3.00
340	1,518	9,385	6.18	14	165	19	0.91	681.20	78.71	486.57	1.40
341	347	2,356	6.79	8	96	11	2.38	285.00	31.50	213.75	1.33
343	664	4,392	6.61	14	135	25	2.07	318.80	26.78	177.11	1.80
350	444	3,326	7.50	8	55	14	1.86	402.33	32.20	241.40	1.67
360	526	2,323	4.41	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
361	116	1,234	10.67	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
362	130	576	4.45	6	14	6	4.26	104.50	23.50	104.50	1.00
370	248	1,281	5.17	6	14	8	2.22	232.50	30.00	155.00	1.50
380	2,039	11,212	5.50	30	430	50	1.49	369.91	41.11	226.06	1.64
390	204	882	4.32	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
391	722	4,056	5.62	6	94	17	0.76	736.00	43.67	245.33	3.00
392	1,083	7,175	6.63	30	306	52	2.80	236.73	20.68	137.05	1.73
393	1,110	4,775	4.30	14	80	17	1.24	346.60	67.17	288.83	1.20
399	33	113	3.42	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
400	1,582	6,329	4.00	3	6	8	0.17	2297.00	191.33	765.67	3.00
401	1,414	5,786	4.09	3	17	6	0.19	2100.00	256.50	1050.00	2.00
403	171	562	3.29	3	8	3	1.61	204.00	62.00	204.00	1.00
404	2,102	8,688	4.13	8	52	17	0.39	1051.00	127.17	525.50	2.00
405	1,306	4,188	3.21	6	14	6	0.42	760.00	237.00	760.00	1.00
406	758	3,334	4.40	3	6	6	0.36	1210.00	137.50	605.00	2.00
410	857	3,621	4.23	6	11	8	0.64	657.00	103.67	438.00	1.50
411	2,879	13,783	4.79	50	700	91	1.72	277.89	31.67	151.58	1.83
412	1,766	7,994	4.53	17	105	28	0.94	483.50	64.10	290.10	1.67
413	2,017	8,322	4.13	17	138	17	0.82	503.33	122.00	503.33	1.00
415	52	187	3.58	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
416	948	4,505	4.75	14	105	19	1.45	327.00	49.14	233.57	1.40
417	686	2,979	4.34	17	132	30	2.41	180.17	22.64	98.27	1.83
418	959	4,337	4.52	6	14	6	0.57	787.00	174.00	787.00	1.00
419	650	2,488	3.83	6	11	6	0.85	451.50	118.00	451.50	1.00
420	149	716	4.81	3	11	3	1.85	260.00	54.00	260.00	1.00
421	485	1,725	3.56	6	30	8	1.14	313.00	58.67	208.67	1.50
422	314	1,287	4.10	8	28	14	2.63	155.67	22.80	93.40	1.67
423	281	1,022	3.64	8	39	11	2.94	123.67	25.50	92.75	1.33
424	168	882	5.25	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
425	212	818	3.86	14	237	36	6.49	59.40	5.92	22.85	2.60
426	986	3,615	3.66	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
432	1,279	5,977	4.67	14	66	33	1.08	433.80	38.67	180.75	2.40
441	504	2,742	5.44	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
442	270	1,350	5.00	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
444	493	2,105	4.27	6	80	6	1.12	382.00	89.50	382.00	1.00
445	1,761	6,340	3.60	25	212	36	1.41	255.67	49.15	177.00	1.44
446	526	2,496	4.74	14	146	19	2.62	181.20	27.29	129.43	1.40
447	2,411	10,132	4.20	8	135	8	0.34	1225.67	291.67	1225.67	1.00
448	661	3,571	5.40	6	36	11	0.83	648.00	60.00	324.00	2.00
449	358	1,628	4.55	8	74	8	2.31	197.00	43.33	197.00	1.00
450	430	1,507	3.51	3	8	3	0.64	547.00	156.00	547.00	1.00
452	218	964	4.43	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
454	386	2,047	5.31	17	157	28	4.29	123.83	14.00	74.30	1.67
455	141	598	4.25	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
471	634	2,350	3.71	6	22	6	0.87	426.50	115.00	426.50	1.00
499	124	515	4.16	3	14	3	2.22	187.00	45.00	187.00	1.00

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Deer Hunting Effort and Lion Observations
By Deer Hunting District

Location	Deer Hunters	Hunter Days	Days/ Hunter	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Days/ Observ	Hunters /Lion	Days /Lion	Lions/ Observ
500	1,686	6,103	3.62	3	11	3	0.16	2215.00	612.00	2215.00	1.00
502	1,670	7,261	4.35	17	96	28	0.99	439.17	60.60	263.50	1.67
510	526	2,764	5.25	30	251	36	5.76	91.18	14.69	77.15	1.18
511	681	2,237	3.29	8	110	8	1.21	270.67	82.33	270.67	1.00
520	1,516	6,577	4.34	22	171	28	1.45	298.38	55.00	238.70	1.25
530	1,518	6,205	4.09	25	110	28	1.63	250.22	55.10	225.20	1.11
540	609	2,560	4.20	11	91	19	1.81	232.25	31.57	132.71	1.75
560	1,174	4,530	3.86	11	41	11	0.94	411.00	106.50	411.00	1.00
570	1,662	6,150	3.70	28	292	44	1.66	223.20	37.69	139.50	1.60
575	2,364	9,933	4.20	33	146	44	1.40	300.42	53.63	225.31	1.33
580	1,527	5,489	3.60	22	99	47	1.44	249.00	32.59	117.18	2.13
590	2,907	12,378	4.26	41	223	44	1.42	299.47	65.94	280.75	1.07
599	74	320	4.30	3	11	3	3.70	116.00	27.00	116.00	1.00
600	931	4,017	4.31	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
610	559	2,215	3.96	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
611	513	1,838	3.59	6	17	8	1.08	333.50	62.00	222.33	1.50
620	592	2,271	3.83	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
621	270	1,444	5.35	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
622	240	1,110	4.63	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
623	132	612	4.63	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
630	975	5,307	5.44	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
631	157	703	4.47	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
632	160	554	3.47	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
640	887	4,403	4.96	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
641	187	1,022	5.46	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
650	810	3,359	4.15	3	28	3	0.34	1219.00	294.00	1219.00	1.00
651	733	3,982	5.43	3	8	3	0.38	1445.00	266.00	1445.00	1.00
652	171	590	3.45	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
670	747	3,083	4.13	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
680	466	1,830	3.93	3	19	3	0.59	664.00	169.00	664.00	1.00
690	1,929	8,457	4.38	11	110	25	0.57	767.25	77.78	341.00	2.25
699	8	25	3.00	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
700	2,408	11,267	4.68	11	77	11	0.46	1022.25	218.50	1022.25	1.00
701	2,695	11,780	4.37	19	176	28	0.72	610.71	97.80	427.50	1.43
702	1,623	7,181	4.42	11	33	19	0.68	651.50	84.14	372.29	1.75
703	2,659	14,910	5.61	11	110	14	0.41	1352.75	193.00	1082.20	1.25
704	2,855	12,273	4.30	22	141	22	0.77	556.75	129.50	556.75	1.00
705	2,097	9,159	4.37	14	116	17	0.66	664.80	126.83	554.00	1.20
799	22	96	4.38	0	0	0	0.00	-9.90	-9.90	-9.90	-9.90
999	118	716	6.05	3	14	11	2.33	260.00	10.75	65.00	4.00

TABLE 3: STATISTICAL CONFIDENCE AND RELATIVE PRECISION

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Statistical Confidence and Relative Precision of Estimates
Statewide and Regional

Location	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Hunter % RPrec	Hunter Observ	Observ LowBnd	Observ Up Bnd	Observ % RPrec	Lions Seen	Lions LowBnd	Lions Up Bnd	Lions % RPrec
State	117,526	116,944	118,109	0.50	2,273	2,192	2,354	3.56	3,455	3,356	3,555	2.89
Region 1	20,641	20,397	20,885	1.18	620	578	662	6.82	937	885	989	5.55
Region 2	19,974	19,734	20,215	1.20	620	578	662	6.82	937	885	989	5.55
Region 3	23,821	23,559	24,083	1.10	386	352	419	8.65	598	556	639	6.95
Region 4	24,926	24,658	25,194	1.08	295	266	324	9.89	479	442	517	7.76
Region 5	15,910	15,696	16,124	1.35	254	226	281	10.67	342	310	373	9.19
Region 6	9,418	9,253	9,583	1.75	25	16	33	34.11	41	30	52	26.42
Region 7	13,348	13,151	13,544	1.47	85	70	101	18.38	110	92	128	16.18
Region U	118	100	137	15.61	3	0	6	102.34	11	5	17	51.17

TABLE 3: STATISTICAL CONFIDENCE AND RELATIVE PRECISION

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Statistical Confidence and Relative Precision of Estimates
By Lion Management Area

Location	Lion Mgmt Area Name	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Hunter % RPrec	Hunter Observ	Observ LowBnd	Observ Up Bnd	Observ % RPrec	Lions Seen	Lions LowBnd	Lions Up Bnd	Lions % RPrec
M1A	CABINET-YAAK	3,657	3,554	3,759	2.81	157	136	178	13.56	270	242	298	10.34
M1B	CLARK FORK	2,789	2,699	2,878	3.22	36	26	46	28.38	36	26	46	28.38
M1C	SALISH	11,876	11,691	12,061	1.56	339	308	370	9.23	490	453	528	7.67
M1D	BOB MARSHALL-MISSIONS	3,386	3,288	3,485	2.92	52	40	65	23.48	88	72	104	18.09
M1E	WHITEFISH	1,590	1,522	1,658	4.26	39	28	49	27.35	50	38	62	24.12
M1F	URBAN	805	756	853	5.99	0	0	0	-9.90	0	0	0	-9.90
M1U	REGION 1 UNKNOWN	61	47	74	21.82	3	0	6	102.34	3	0	6	102.34
M2A	LOWER CLARK FORK	4,445	4,331	4,558	2.55	141	120	161	14.33	226	200	251	11.30
M2B	BITTERROOT	7,594	7,446	7,742	1.95	157	136	178	13.56	220	195	246	11.44
M2C	ROCK CR-DEERLODGE	3,356	3,258	3,455	2.93	94	77	110	17.55	149	128	170	13.93
M2D	BLACKFOOT	7,015	6,873	7,158	2.03	231	206	257	11.17	336	305	367	9.27
M2U	REGION 2 UNKNOWN	72	57	86	20.07	6	2	9	72.37	6	2	9	72.37
M3A	BIGHOLE	3,893	3,787	3,999	2.72	63	50	77	21.34	91	75	107	17.82
M3B	GRAVELLYS-PIONEERS	7,159	7,015	7,302	2.01	110	92	128	16.18	163	141	184	13.32
M3C	YELLOWSTONE	4,717	4,601	4,834	2.47	50	38	62	24.12	61	47	74	21.82
M3D	BELTS-BRIDGERS-ELKHORN	10,589	10,414	10,764	1.65	168	146	190	13.10	284	255	312	10.08
M3U	REGION 3 UNKNOWN	33	23	43	29.54	0	0	0	-9.90	0	0	0	-9.90
M4A	EAST FRONT	2,929	2,837	3,021	3.14	44	33	55	25.59	77	62	92	19.34
M4B	MOUNTAIN-FOOTHILLS	12,309	12,120	12,497	1.53	185	162	208	12.50	298	268	327	9.85
M4C	PRAIRE-AGRICULTURE	12,309	12,120	12,497	1.53	66	52	80	20.89	102	85	119	16.82
M4U	REGION 4 UNKNOWN	124	105	143	15.26	3	0	6	102.34	3	0	6	102.34
M5A	BEARTOOTH FACE	2,670	2,582	2,758	3.29	33	23	43	29.54	39	28	49	27.35
M5B	MOUNTAIN FOOTHILLS	3,229	3,133	3,326	2.99	72	57	86	20.07	110	92	128	16.18
M5C	PRAIRE-AGRICULTURE	10,997	10,819	11,175	1.62	146	126	167	14.06	190	167	214	12.32
M5U	REGION 5 UNKNOWN	74	60	89	19.70	3	0	6	102.34	3	0	6	102.34
M6A	REGION 6 DISTRICTS	9,410	9,245	9,575	1.75	25	16	33	34.11	41	30	52	26.42
M6U	REGION 6 UNKNOWN	8	3	13	59.09	0	0	0	-9.90	0	0	0	-9.90
M7A	REGION 7 DISTRICTS	13,325	13,129	13,522	1.47	85	70	101	18.38	110	92	128	16.18
M7U	REGION 7 UNKNOWN	22	14	30	36.18	0	0	0	-9.90	0	0	0	-9.90
M9U	REGION UNKNOWN	118	100	137	15.61	3	0	6	102.34	11	5	17	51.17

TABLE 3: STATISTICAL CONFIDENCE AND RELATIVE PRECISION

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Statistical Confidence and Relative Precision of Estimates
By Lion Regulations/Quota Unit

Location	Lion Regs/Quota Unit HDs	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Hunter % RPrec	Hunter Observ	Observ LowBnd	Observ Up Bnd	Observ % RPrec	Lions Seen	Lions LowBnd	Lions Up Bnd	Lions % RPrec
R100	HD:100	2,568	2,482	2,654	3.35	116	97	134	15.79	190	167	214	12.32
R101	HD:101	2,375	2,292	2,458	3.49	74	60	89	19.70	124	105	143	15.26
R102	HD:102	3,279	3,182	3,376	2.97	80	65	95	19.00	105	87	122	16.60
R103	HD:103	3,469	3,369	3,569	2.88	77	62	92	19.34	116	97	134	15.79
R104	HD:104	1,678	1,608	1,748	4.15	47	35	58	24.82	80	65	95	19.00
R110	HD:110	1,590	1,522	1,658	4.26	39	28	49	27.35	50	38	62	24.12
R120	HD:120	2,408	2,325	2,492	3.46	58	45	71	22.33	77	62	92	19.34
R121	HD:121	2,105	2,027	2,183	3.70	30	21	40	30.86	30	21	40	30.86
R122	HD:122	2,039	1,962	2,116	3.76	52	40	65	23.48	69	55	83	20.47
R123	HD:123	416	381	451	8.33	6	2	9	72.37	6	2	9	72.37
R124	HD:124	457	421	494	7.94	0	0	0	-9.90	0	0	0	-9.90
R130	HD:130	1,786	1,714	1,857	4.02	30	21	40	30.86	58	45	71	22.33
R132	HD:132,170	1,887	1,814	1,961	3.91	11	5	17	51.17	17	10	23	41.78
R140	HD:140	430	395	465	8.19	8	3	13	59.09	8	3	13	59.09
R141	HD:141	146	126	167	14.06	3	0	6	102.34	3	0	6	102.34
R150	HD:150,151	88	72	104	18.09	3	0	6	102.34	3	0	6	102.34
R199	HD:R1 UNKN	61	47	74	21.82	3	0	6	102.34	3	0	6	102.34
R200	HD:200,201	2,342	2,260	2,424	3.51	55	42	68	22.88	94	77	110	17.55
R202	HD:202,203	2,651	2,563	2,738	3.30	88	72	104	18.09	132	113	152	14.77
R204	HD:204,260,261	3,905	3,798	4,011	2.72	61	47	74	21.82	88	72	104	18.09
R210	HD:210,211,216	1,290	1,229	1,351	4.73	50	38	62	24.12	85	70	101	18.38
R212	HD:212,215	1,728	1,657	1,798	4.09	41	30	52	26.42	58	45	71	22.33
R213	HD:213,214	579	538	620	7.06	6	2	9	72.37	6	2	9	72.37
R240	HD:240	2,053	1,976	2,130	3.75	33	23	43	29.54	47	35	58	24.82
R250	HD:250	1,116	1,059	1,173	5.09	41	30	52	26.42	61	47	74	21.82
R270	HD:270	1,874	1,800	1,947	3.92	22	14	30	36.18	25	16	33	34.11
R280	HD:280,281,284,293	2,028	1,952	2,105	3.77	74	60	89	19.70	102	85	119	16.82
R282	HD:282	182	159	205	12.60	6	2	9	72.37	6	2	9	72.37
R283	HD:283,285	2,979	2,886	3,071	3.11	85	70	101	18.38	124	105	143	15.26
R290	HD:290,291,292	2,491	2,406	2,576	3.40	69	55	83	20.47	105	87	122	16.60
R299	HD:R2 UNKN	72	57	86	20.07	6	2	9	72.37	6	2	9	72.37
R300	HD:300,302,328,329	1,113	1,057	1,170	5.09	22	14	30	36.18	25	16	33	34.11
R301	HD:301	995	941	1,048	5.39	8	3	13	59.09	17	10	23	41.78
R310	HD:310,311,360,361,362	2,576	2,490	2,663	3.35	19	12	27	38.68	22	14	30	36.18
R312	HD:312,393	2,631	2,544	2,719	3.31	41	30	52	26.42	52	40	65	23.48
R313	HD:313,316	317	287	347	9.54	8	3	13	59.09	8	3	13	59.09
R314	HD:314	609	567	651	6.88	8	3	13	59.09	8	3	13	59.09
R315	HD:315	1,722	1,652	1,793	4.09	14	7	20	45.77	25	16	33	34.11
R317	HD:317	595	554	637	6.96	6	2	9	72.37	6	2	9	72.37
R318	HD:318,350	769	722	816	6.13	17	10	23	41.78	28	19	36	32.36
R319	HD:319,341	942	890	995	5.53	19	12	27	38.68	22	14	30	36.18
R320	HD:320,333	2,604	2,517	2,691	3.33	47	35	58	24.82	69	55	83	20.47
R321	HD:321,331,332	1,794	1,722	1,866	4.01	30	21	40	30.86	50	38	62	24.12
R322	HD:322,326,330	2,494	2,409	2,579	3.40	25	16	33	34.11	39	28	49	27.35
R323	HD:323,324,325,327	1,521	1,455	1,587	4.36	17	10	23	41.78	30	21	40	30.86
R335	HD:335,339,343	1,893	1,819	1,967	3.90	25	16	33	34.11	52	40	65	23.48
R340	HD:340	1,518	1,452	1,584	4.36	14	7	20	45.77	19	12	27	38.68
R370	HD:370,380	2,262	2,181	2,343	3.57	36	26	46	28.38	58	45	71	22.33
R390	HD:390,391,392	1,937	1,862	2,012	3.86	36	26	46	28.38	69	55	83	20.47
R399	HD:R3 UNKN	33	23	43	29.54	0	0	0	-9.90	0	0	0	-9.90
R400	HD:400,401,403,406,415,441	4,122	4,013	4,231	2.65	11	5	17	51.17	22	14	30	36.18
R404	HD:404,421,444,450	3,392	3,293	3,491	2.92	22	14	30	36.18	33	23	43	29.54
R405	HD:405,447,471	4,114	4,005	4,223	2.65	19	12	27	38.68	19	12	27	38.68
R410	HD:410,417,419,426	3,006	2,913	3,099	3.10	28	19	36	32.36	44	33	55	25.59
R411	HD:411,412	4,348	4,236	4,460	2.58	66	52	80	20.89	118	100	137	15.61
R413	HD:413,432	3,144	3,049	3,239	3.03	30	21	40	30.86	50	38	62	24.12
R416	HD:416,446,449,452,454	2,196	2,116	2,276	3.63	50	38	62	24.12	74	60	89	19.70
R418	HD:418,420,448	1,637	1,568	1,705	4.20	14	7	20	45.77	19	12	27	38.68
R422	HD:422,423,424,425,442	1,168	1,110	1,226	4.97	30	21	40	30.86	61	47	74	21.82
R445	HD:445,455	1,887	1,814	1,961	3.91	25	16	33	34.11	36	26	46	28.38
R499	HD:R4 UNKN	124	105	143	15.26	3	0	6	102.34	3	0	6	102.34

TABLE 3: STATISTICAL CONFIDENCE AND RELATIVE PRECISION

Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Statistical Confidence and Relative Precision of Estimates
By Lion Regulations/Quota Unit

Location	Lion Regs/Quota Unit HDs	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Hunter % RPrec	Hunter Observ	Observ LowBnd	Observ Up Bnd	Observ % RPrec	Lions Seen	Lions LowBnd	Lions Up Bnd	Lions % RPrec
R530	HD:530,590	4,296	4,184	4,407	2.59	66	52	80	20.89	72	57	86	20.07
R540	HD:540	609	567	651	6.88	11	5	17	51.17	19	12	27	38.68
R500	HD:500,570	3,293	3,195	3,390	2.96	30	21	40	30.86	47	35	58	24.82
R502	HD:502,575	3,946	3,839	4,053	2.70	50	38	62	24.12	72	57	86	20.07
R510	HD:510	526	487	565	7.41	30	21	40	30.86	36	26	46	28.38
R511	HD:511	681	636	725	6.51	8	3	13	59.09	8	3	13	59.09
R520	HD:520	1,516	1,449	1,582	4.36	22	14	30	36.18	28	19	36	32.36
R560	HD:560	1,174	1,116	1,232	4.96	11	5	17	51.17	11	5	17	51.17
R580	HD:580	1,527	1,460	1,593	4.35	22	14	30	36.18	47	35	58	24.82
R599	HD:R5 UNKN	74	60	89	19.70	3	0	6	102.34	3	0	6	102.34
R600	HD:600'S (NOT 680,690)	7,255	7,110	7,400	1.99	11	5	17	51.17	14	7	20	45.77
R680	HD:680,690	2,348	2,265	2,430	3.51	14	7	20	45.77	28	19	36	32.36
R699	HD:R6 UNKN	8	3	13	59.09	0	0	0	-9.90	0	0	0	-9.90
R700	HD:700'S	13,325	13,129	13,522	1.47	85	70	101	18.38	110	92	128	16.18
R799	HD:R7 UNKN	22	14	30	36.18	0	0	0	-9.90	0	0	0	-9.90
R999	HD:REGION UNKN	118	100	137	15.61	3	0	6	102.34	11	5	17	51.17

TABLE 3: STATISTICAL CONFIDENCE AND RELATIVE PRECISION

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Statistical Confidence and Relative Precision of Estimates
By Deer Hunting District

Location	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Hunter % RPrec	Hunter Observ	Observ LowBnd	Observ Up Bnd	Observ % RPrec	Lions Seen	Lions LowBnd	Lions Up Bnd	Lions % RPrec
100	2,568	2,482	2,654	3.35	116	97	134	15.79	190	167	214	12.32
101	2,375	2,292	2,458	3.49	74	60	89	19.70	124	105	143	15.26
102	3,279	3,182	3,376	2.97	80	65	95	19.00	105	87	122	16.60
103	3,469	3,369	3,569	2.88	77	62	92	19.34	116	97	134	15.79
104	1,678	1,608	1,748	4.15	47	35	58	24.82	80	65	95	19.00
110	1,590	1,522	1,658	4.26	39	28	49	27.35	50	38	62	24.12
120	2,408	2,325	2,492	3.46	58	45	71	22.33	77	62	92	19.34
121	2,105	2,027	2,183	3.70	30	21	40	30.86	30	21	40	30.86
122	2,039	1,962	2,116	3.76	52	40	65	23.48	69	55	83	20.47
123	416	381	451	8.33	6	2	9	72.37	6	2	9	72.37
124	457	421	494	7.94	0	0	0	-9.90	0	0	0	-9.90
130	1,786	1,714	1,857	4.02	30	21	40	30.86	58	45	71	22.33
132	1,157	1,100	1,215	4.99	11	5	17	51.17	17	10	23	41.78
140	430	395	465	8.19	8	3	13	59.09	8	3	13	59.09
141	146	126	167	14.06	3	0	6	102.34	3	0	6	102.34
150	63	50	77	21.34	0	0	0	-9.90	0	0	0	-9.90
151	25	16	33	34.11	3	0	6	102.34	3	0	6	102.34
170	805	756	853	5.99	0	0	0	-9.90	0	0	0	-9.90
199	61	47	74	21.82	3	0	6	102.34	3	0	6	102.34
200	700	655	745	6.42	11	5	17	51.17	14	7	20	45.77
201	1,755	1,684	1,826	4.05	44	33	55	25.59	80	65	95	19.00
202	1,516	1,449	1,582	4.36	30	21	40	30.86	33	23	43	29.54
203	1,237	1,177	1,297	4.83	61	47	74	21.82	99	82	116	17.06
204	1,799	1,727	1,871	4.00	36	26	46	28.38	44	33	55	25.59
210	907	855	958	5.64	30	21	40	30.86	55	42	68	22.88
211	226	200	251	11.30	14	7	20	45.77	19	12	27	38.68
212	1,091	1,035	1,147	5.14	22	14	30	36.18	33	23	43	29.54
213	344	313	376	9.15	6	2	9	72.37	6	2	9	72.37
214	281	253	310	10.13	0	0	0	-9.90	0	0	0	-9.90
215	738	692	785	6.25	19	12	27	38.68	25	16	33	34.11
216	226	200	251	11.30	6	2	9	72.37	11	5	17	51.17
240	2,053	1,976	2,130	3.75	33	23	43	29.54	47	35	58	24.82
250	1,116	1,059	1,173	5.09	41	30	52	26.42	61	47	74	21.82
260	1,576	1,509	1,644	4.28	11	5	17	51.17	11	5	17	51.17
261	783	735	830	6.07	14	7	20	45.77	33	23	43	29.54
270	1,874	1,800	1,947	3.92	22	14	30	36.18	25	16	33	34.11
280	141	120	161	14.33	6	2	9	72.37	8	3	13	59.09
281	1,011	957	1,065	5.34	44	33	55	25.59	55	42	68	22.88
282	182	159	205	12.60	6	2	9	72.37	6	2	9	72.37
283	1,317	1,255	1,379	4.68	28	19	36	32.36	36	26	46	28.38
284	165	143	187	13.21	6	2	9	72.37	8	3	13	59.09
285	1,821	1,749	1,894	3.98	58	45	71	22.33	88	72	104	18.09
290	179	156	202	12.69	0	0	0	-9.90	0	0	0	-9.90
291	526	487	565	7.41	11	5	17	51.17	14	7	20	45.77
292	1,865	1,792	1,939	3.93	58	45	71	22.33	91	75	107	17.82
293	904	853	955	5.65	19	12	27	38.68	30	21	40	30.86
299	72	57	86	20.07	6	2	9	72.37	6	2	9	72.37
300	234	208	260	11.10	6	2	9	72.37	6	2	9	72.37
301	995	941	1,048	5.39	8	3	13	59.09	17	10	23	41.78
302	295	266	324	9.89	6	2	9	72.37	6	2	9	72.37
310	209	185	234	11.74	3	0	6	102.34	3	0	6	102.34
311	1,750	1,679	1,821	4.06	11	5	17	51.17	14	7	20	45.77
312	1,637	1,568	1,705	4.20	28	19	36	32.36	36	26	46	28.38
313	284	255	312	10.08	6	2	9	72.37	6	2	9	72.37
314	609	567	651	6.88	8	3	13	59.09	8	3	13	59.09
315	1,722	1,652	1,793	4.09	14	7	20	45.77	25	16	33	34.11
316	33	23	43	29.54	3	0	6	102.34	3	0	6	102.34
317	595	554	637	6.96	6	2	9	72.37	6	2	9	72.37
318	350	318	382	9.08	8	3	13	59.09	14	7	20	45.77
319	637	594	679	6.73	11	5	17	51.17	11	5	17	51.17
320	857	807	907	5.80	19	12	27	38.68	36	26	46	28.38
321	350	318	382	9.08	6	2	9	72.37	8	3	13	59.09
322	1,196	1,137	1,255	4.91	14	7	20	45.77	25	16	33	34.11
323	220	195	246	11.44	8	3	13	59.09	22	14	30	36.18
324	455	418	491	7.97	3	0	6	102.34	3	0	6	102.34
325	727	682	773	6.30	6	2	9	72.37	6	2	9	72.37

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Statistical Confidence and Relative Precision of Estimates
By Deer Hunting District

Location	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Hunter % RPrec	Hunter Observ	Observ LowBnd	Observ Up Bnd	Observ % RPrec	Lions Seen	Lions LowBnd	Lions Up Bnd	Lions % RPrec
326	829	780	878	5.90	6	2	9	72.37	8	3	13	59.09
327	196	172	219	12.15	0	0	0	-9.90	0	0	0	-9.90
328	198	174	222	12.06	6	2	9	72.37	8	3	13	59.09
329	482	445	520	7.74	6	2	9	72.37	6	2	9	72.37
330	601	559	642	6.93	6	2	9	72.37	6	2	9	72.37
331	1,152	1,094	1,209	5.01	22	14	30	36.18	39	28	49	27.35
332	408	374	442	8.41	3	0	6	102.34	3	0	6	102.34
333	1,791	1,719	1,863	4.01	28	19	36	32.36	33	23	43	29.54
335	598	556	639	6.95	8	3	13	59.09	19	12	27	38.68
339	683	639	728	6.50	3	0	6	102.34	8	3	13	59.09
340	1,518	1,452	1,584	4.36	14	7	20	45.77	19	12	27	38.68
341	347	316	379	9.12	8	3	13	59.09	11	5	17	51.17
343	664	620	708	6.59	14	7	20	45.77	25	16	33	34.11
350	444	408	479	8.07	8	3	13	59.09	14	7	20	45.77
360	526	487	565	7.41	0	0	0	-9.90	0	0	0	-9.90
361	116	97	134	15.79	0	0	0	-9.90	0	0	0	-9.90
362	130	110	149	14.93	6	2	9	72.37	6	2	9	72.37
370	248	221	275	10.79	6	2	9	72.37	8	3	13	59.09
380	2,039	1,962	2,116	3.76	30	21	40	30.86	50	38	62	24.12
390	204	180	228	11.90	0	0	0	-9.90	0	0	0	-9.90
391	722	676	768	6.32	6	2	9	72.37	17	10	23	41.78
392	1,083	1,027	1,139	5.16	30	21	40	30.86	52	40	65	23.48
393	1,110	1,054	1,167	5.10	14	7	20	45.77	17	10	23	41.78
399	33	23	43	29.54	0	0	0	-9.90	0	0	0	-9.90
400	1,582	1,514	1,649	4.27	3	0	6	102.34	8	3	13	59.09
401	1,414	1,350	1,477	4.52	3	0	6	102.34	6	2	9	72.37
403	171	149	193	13.00	3	0	6	102.34	3	0	6	102.34
404	2,102	2,025	2,180	3.70	8	3	13	59.09	17	10	23	41.78
405	1,306	1,245	1,367	4.70	6	2	9	72.37	6	2	9	72.37
406	758	711	805	6.17	3	0	6	102.34	6	2	9	72.37
410	857	807	907	5.80	6	2	9	72.37	8	3	13	59.09
411	2,879	2,788	2,971	3.17	50	38	62	24.12	91	75	107	17.82
412	1,766	1,695	1,838	4.04	17	10	23	41.78	28	19	36	32.36
413	2,017	1,941	2,093	3.78	17	10	23	41.78	17	10	23	41.78
415	52	40	65	23.48	0	0	0	-9.90	0	0	0	-9.90
416	948	896	1,000	5.52	14	7	20	45.77	19	12	27	38.68
417	686	642	731	6.49	17	10	23	41.78	30	21	40	30.86
418	959	906	1,012	5.49	6	2	9	72.37	6	2	9	72.37
419	650	607	694	6.66	6	2	9	72.37	6	2	9	72.37
420	149	128	170	13.93	3	0	6	102.34	3	0	6	102.34
421	485	448	522	7.71	6	2	9	72.37	8	3	13	59.09
422	314	284	344	9.59	8	3	13	59.09	14	7	20	45.77
423	281	253	310	10.13	8	3	13	59.09	11	5	17	51.17
424	168	146	190	13.10	0	0	0	-9.90	0	0	0	-9.90
425	212	187	237	11.66	14	7	20	45.77	36	26	46	28.38
426	986	933	1,040	5.41	0	0	0	-9.90	0	0	0	-9.90
432	1,279	1,218	1,339	4.75	14	7	20	45.77	33	23	43	29.54
441	504	466	542	7.57	0	0	0	-9.90	0	0	0	-9.90
442	270	242	298	10.34	0	0	0	-9.90	0	0	0	-9.90
444	493	456	531	7.65	6	2	9	72.37	6	2	9	72.37
445	1,761	1,689	1,832	4.05	25	16	33	34.11	36	26	46	28.38
446	526	487	565	7.41	14	7	20	45.77	19	12	27	38.68
447	2,411	2,328	2,494	3.46	8	3	13	59.09	8	3	13	59.09
448	661	618	705	6.61	6	2	9	72.37	11	5	17	51.17
449	358	326	390	8.98	8	3	13	59.09	8	3	13	59.09
450	430	395	465	8.19	3	0	6	102.34	3	0	6	102.34
452	218	193	243	11.51	0	0	0	-9.90	0	0	0	-9.90
454	386	352	419	8.65	17	10	23	41.78	28	19	36	32.36
455	141	120	161	14.33	0	0	0	-9.90	0	0	0	-9.90
471	634	591	677	6.75	6	2	9	72.37	6	2	9	72.37
499	124	105	143	15.26	3	0	6	102.34	3	0	6	102.34

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Statistical Confidence and Relative Precision of Estimates
By Deer Hunting District

Location	Deer Hunters	Hunters Low Bnd	Hunters Up Bnd	Hunter % RPrec	Hunter Observ	Observ LowBnd	Observ Up Bnd	Observ % RPrec	Lions Seen	Lions LowBnd	Lions Up Bnd	Lions % RPrec
500	1,686	1,617	1,756	4.14	3	0	6	102.34	3	0	6	102.34
502	1,670	1,600	1,739	4.16	17	10	23	41.78	28	19	36	32.36
510	526	487	565	7.41	30	21	40	30.86	36	26	46	28.38
511	681	636	725	6.51	8	3	13	59.09	8	3	13	59.09
520	1,516	1,449	1,582	4.36	22	14	30	36.18	28	19	36	32.36
530	1,518	1,452	1,584	4.36	25	16	33	34.11	28	19	36	32.36
540	609	567	651	6.88	11	5	17	51.17	19	12	27	38.68
560	1,174	1,116	1,232	4.96	11	5	17	51.17	11	5	17	51.17
570	1,662	1,592	1,731	4.17	28	19	36	32.36	44	33	55	25.59
575	2,364	2,282	2,447	3.49	33	23	43	29.54	44	33	55	25.59
580	1,527	1,460	1,593	4.35	22	14	30	36.18	47	35	58	24.82
590	2,907	2,815	2,999	3.15	41	30	52	26.42	44	33	55	25.59
599	74	60	89	19.70	3	0	6	102.34	3	0	6	102.34
600	931	880	983	5.57	0	0	0	-9.90	0	0	0	-9.90
610	559	519	600	7.18	0	0	0	-9.90	0	0	0	-9.90
611	513	474	551	7.50	6	2	9	72.37	8	3	13	59.09
620	592	551	634	6.98	0	0	0	-9.90	0	0	0	-9.90
621	270	242	298	10.34	0	0	0	-9.90	0	0	0	-9.90
622	240	213	266	10.97	0	0	0	-9.90	0	0	0	-9.90
623	132	113	152	14.77	0	0	0	-9.90	0	0	0	-9.90
630	975	922	1,028	5.44	0	0	0	-9.90	0	0	0	-9.90
631	157	136	178	13.56	0	0	0	-9.90	0	0	0	-9.90
632	160	138	181	13.44	0	0	0	-9.90	0	0	0	-9.90
640	887	837	938	5.70	0	0	0	-9.90	0	0	0	-9.90
641	187	164	211	12.41	0	0	0	-9.90	0	0	0	-9.90
650	810	762	858	5.97	3	0	6	102.34	3	0	6	102.34
651	733	687	779	6.27	3	0	6	102.34	3	0	6	102.34
652	171	149	193	13.00	0	0	0	-9.90	0	0	0	-9.90
670	747	700	793	6.22	0	0	0	-9.90	0	0	0	-9.90
680	466	429	502	7.87	3	0	6	102.34	3	0	6	102.34
690	1,929	1,854	2,003	3.87	11	5	17	51.17	25	16	33	34.11
699	8	3	13	59.09	0	0	0	-9.90	0	0	0	-9.90
700	2,408	2,325	2,492	3.46	11	5	17	51.17	11	5	17	51.17
701	2,695	2,607	2,783	3.27	19	12	27	38.68	28	19	36	32.36
702	1,623	1,555	1,691	4.22	11	5	17	51.17	19	12	27	38.68
703	2,659	2,571	2,747	3.29	11	5	17	51.17	14	7	20	45.77
704	2,855	2,764	2,945	3.18	22	14	30	36.18	22	14	30	36.18
705	2,097	2,019	2,175	3.71	14	7	20	45.77	17	10	23	41.78
799	22	14	30	36.18	0	0	0	-9.90	0	0	0	-9.90
999	118	100	137	15.61	3	0	6	102.34	11	5	17	51.17

TABLE 4: ADDITIONAL LION OBSERVATION STATISTICS

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Additional Lion Observation Statistics
Statewide and Regional

Location	Deer Hunters	Hunter Observ	Distric Observ	Observ Days	Lions Seen	Percent Observ	Lions/ Observ	ObsDist /Observ	ObsDays /Observ	ObsDays /ObsDist	Lions/ ObsDay	Lions/ ObsDist
State	117,526	2,273	2,337	20,589	3,455	1.93	1.52	1.03	9.06	8.81	0.17	1.48
Region 1	20,641	620	637	5,886	937	3.00	1.51	1.03	9.49	9.25	0.16	1.47
Region 2	19,974	620	639	5,968	937	3.10	1.51	1.03	9.63	9.34	0.16	1.47
Region 3	23,821	386	391	3,621	598	1.62	1.55	1.01	9.39	9.25	0.17	1.53
Region 4	24,926	295	300	2,612	479	1.18	1.63	1.02	8.86	8.70	0.18	1.60
Region 5	15,910	254	254	1,653	342	1.59	1.35	1.00	6.52	6.52	0.21	1.35
Region 6	9,418	25	25	182	41	0.26	1.67	1.00	7.33	7.33	0.23	1.67
Region 7	13,348	85	88	653	110	0.64	1.29	1.03	7.65	7.41	0.17	1.25
Region U	118	3	3	14	11	2.33	4.00	1.00	5.00	5.00	0.80	4.00

TABLE 4: ADDITIONAL LION OBSERVATION STATISTICS

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Additional Lion Observation Statistics
By Lion Management Area

Location	Lion Mgmt Area Name	Deer Hunters	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Lions/ Observ	ObsDays /Observ	Lions/ ObsDay
M1A	CABINET-YAAK	3,657	157	1,527	270	4.30	1.72	9.72	0.18
M1B	CLARK FORK	2,789	36	488	36	1.28	1.00	13.62	0.07
M1C	SALISH	11,876	339	3,196	490	2.85	1.45	9.43	0.15
M1D	BOB MARSHALL-MISSIONS	3,386	52	435	88	1.55	1.68	8.32	0.20
M1E	WHITEFISH	1,590	39	212	50	2.43	1.29	5.50	0.23
M1F	URBAN	805	0	0	0	0.00	-9.90	-9.90	-9.00
M1U	REGION 1 UNKNOWN	61	3	28	3	4.55	1.00	10.00	0.10
M2A	LOWER CLARK FORK	4,445	141	1,664	226	3.16	1.61	11.84	0.14
M2B	BITTERROOT	7,594	157	1,540	220	2.07	1.40	9.81	0.14
M2C	ROCK CR-DEERLODGE	3,356	94	981	149	2.79	1.59	10.47	0.15
M2D	BLACKFOOT	7,015	231	1,711	336	3.30	1.45	7.39	0.20
M2U	REGION 2 UNKNOWN	72	6	72	6	7.69	1.00	13.00	0.08
M3A	BIGHOLE	3,893	63	595	91	1.63	1.43	9.39	0.15
M3B	GRAVELLYS-PIONEERS	7,159	110	749	163	1.54	1.48	6.80	0.22
M3C	YELLOWSTONE	4,717	50	463	61	1.05	1.22	9.33	0.13
M3D	BELTS-BRIDGERS-ELKHORN	10,589	168	1,813	284	1.59	1.69	10.79	0.16
M3U	REGION 3 UNKNOWN	33	0	0	0	0.00	-9.90	-9.90	-9.00
M4A	EAST FRONT	2,929	44	422	77	1.51	1.75	9.56	0.18
M4B	MOUNTAIN-FOOTHILLS	12,309	185	1,764	298	1.50	1.61	9.55	0.17
M4C	PRAIRE-AGRICULTURE	12,309	66	413	102	0.54	1.54	6.25	0.25
M4U	REGION 4 UNKNOWN	124	3	14	3	2.22	1.00	5.00	0.20
M5A	BEARTOOTH FACE	2,670	33	212	39	1.24	1.17	6.42	0.18
M5B	MOUNTAIN FOOTHILLS	3,229	72	551	110	2.22	1.54	7.69	0.20
M5C	PRAIRE-AGRICULTURE	10,997	146	879	190	1.33	1.30	6.02	0.22
M5U	REGION 5 UNKNOWN	74	3	11	3	3.70	1.00	4.00	0.25
M6A	REGION 6 DISTRICTS	9,410	25	182	41	0.26	1.67	7.33	0.23
M6U	REGION 6 UNKNOWN	8	0	0	0	0.00	-9.90	-9.90	-9.00
M7A	REGION 7 DISTRICTS	13,325	85	653	110	0.64	1.29	7.65	0.17
M7U	REGION 7 UNKNOWN	22	0	0	0	0.00	-9.90	-9.90	-9.00
M9U	REGION UNKNOWN	118	3	14	11	2.33	4.00	5.00	0.80

TABLE 4: ADDITIONAL LION OBSERVATION STATISTICS

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Additional Lion Observation Statistics
By Lion Regulations/Quota Unit

Location	Lion Regs/Quota Unit HDs	Deer Hunters	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Lions/ Observ	ObsDays /Observ	Lions/ ObsDay
R100	HD:100	2,568	116	1,177	190	4.51	1.64	10.17	0.16
R101	HD:101	2,375	74	923	124	3.13	1.67	12.41	0.13
R102	HD:102	3,279	80	639	105	2.44	1.31	8.00	0.16
R103	HD:103	3,469	77	697	116	2.22	1.50	9.04	0.17
R104	HD:104	1,678	47	350	80	2.79	1.71	7.47	0.23
R110	HD:110	1,590	39	212	50	2.43	1.29	5.50	0.23
R120	HD:120	2,408	58	581	77	2.40	1.33	10.05	0.13
R121	HD:121	2,105	30	400	30	1.44	1.00	13.18	0.08
R122	HD:122	2,039	52	355	69	2.57	1.32	6.79	0.19
R123	HD:123	416	6	88	6	1.32	1.00	16.00	0.06
R124	HD:124	457	0	0	0	0.00	-9.90	-9.90	-9.00
R130	HD:130	1,786	30	265	58	1.70	1.91	8.73	0.22
R132	HD:132,170	1,887	11	113	17	0.58	1.50	10.25	0.15
R140	HD:140	430	8	33	8	1.92	1.00	4.00	0.25
R141	HD:141	146	3	6	3	1.89	1.00	2.00	0.50
R150	HD:150,151	88	3	19	3	3.13	1.00	7.00	0.14
R199	HD:R1 UNKN	61	3	28	3	4.55	1.00	10.00	0.10
R200	HD:200,201	2,342	55	692	94	2.35	1.70	12.55	0.14
R202	HD:202,203	2,651	88	973	132	3.33	1.50	11.03	0.14
R204	HD:204,260,261	3,905	61	532	88	1.55	1.45	8.77	0.17
R210	HD:210,211,216	1,290	50	452	85	3.85	1.72	9.11	0.19
R212	HD:212,215	1,728	41	468	58	2.39	1.40	11.33	0.12
R213	HD:213,214	579	6	61	6	0.95	1.00	11.00	0.09
R240	HD:240	2,053	33	284	47	1.61	1.42	8.58	0.17
R250	HD:250	1,116	41	485	61	3.70	1.47	11.73	0.13
R270	HD:270	1,874	22	240	25	1.18	1.13	10.88	0.10
R280	HD:280,281,284,293	2,028	74	733	102	3.67	1.37	9.85	0.14
R282	HD:282	182	6	33	6	3.03	1.00	6.00	0.17
R283	HD:283,285	2,979	85	482	124	2.87	1.45	5.65	0.26
R290	HD:290,291,292	2,491	69	463	105	2.77	1.52	6.72	0.23
R299	HD:R2 UNKN	72	6	72	6	7.69	1.00	13.00	0.08
R300	HD:300,302,328,329	1,113	22	152	25	1.98	1.13	6.88	0.16
R301	HD:301	995	8	124	17	0.83	2.00	15.00	0.13
R310	HD:310,311,360,361,362	2,576	19	143	22	0.75	1.14	7.43	0.15
R312	HD:312,393	2,631	41	504	52	1.57	1.27	12.20	0.10
R313	HD:313,316	317	8	58	8	2.61	1.00	7.00	0.14
R314	HD:314	609	8	36	8	1.36	1.00	4.33	0.23
R315	HD:315	1,722	14	66	25	0.80	1.80	4.80	0.38
R317	HD:317	595	6	102	6	0.93	1.00	18.50	0.05
R318	HD:318,350	769	17	132	28	2.15	1.67	8.00	0.21
R319	HD:319,341	942	19	212	22	2.05	1.14	11.00	0.10
R320	HD:320,333	2,604	47	361	69	1.80	1.47	7.71	0.19
R321	HD:321,331,332	1,794	30	218	50	1.69	1.64	7.18	0.23
R322	HD:322,326,330	2,494	25	176	39	0.99	1.56	7.11	0.22
R323	HD:323,324,325,327	1,521	17	61	30	1.09	1.83	3.67	0.50
R335	HD:335,339,343	1,893	25	267	52	1.31	2.11	10.78	0.20
R340	HD:340	1,518	14	165	19	0.91	1.40	12.00	0.12
R370	HD:370,380	2,262	36	444	58	1.58	1.62	12.38	0.13
R390	HD:390,391,392	1,937	36	400	69	1.85	1.92	11.15	0.17
R399	HD:R3 UNKN	33	0	0	0	0.00	-9.90	-9.90	-9.00
R400	HD:400,401,403,406,415,441	4,122	11	36	22	0.27	2.00	3.25	0.62
R404	HD:404,421,444,450	3,392	22	171	33	0.65	1.50	7.75	0.19
R405	HD:405,447,471	4,114	19	171	19	0.47	1.00	8.86	0.11
R410	HD:410,417,419,426	3,006	28	154	44	0.92	1.60	5.60	0.29
R411	HD:411,412	4,348	66	805	118	1.52	1.79	12.17	0.15
R413	HD:413,432	3,144	30	204	50	0.96	1.64	6.73	0.24
R416	HD:416,446,449,452,454	2,196	50	482	74	2.26	1.50	9.72	0.15
R418	HD:418,420,448	1,637	14	61	19	0.84	1.40	4.40	0.32
R422	HD:422,423,424,425,442	1,168	30	303	61	2.59	2.00	10.00	0.20
R445	HD:445,455	1,887	25	212	36	1.31	1.44	8.56	0.17
R499	HD:R4 UNKN	124	3	14	3	2.22	1.00	5.00	0.20

TABLE 4: ADDITIONAL LION OBSERVATION STATISTICS

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Additional Lion Observation Statistics
By Lion Regulations/Quota Unit

Location	Lion Regs/Quota Unit HDs	Deer Hunters	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Lions/ Observ	ObsDays /Observ	Lions/ ObsDay
R500	HD:500,570	3,293	30	303	47	0.92	1.55	10.00	0.15
R502	HD:502,575	3,946	50	242	72	1.26	1.44	4.89	0.30
R510	HD:510	526	30	251	36	5.76	1.18	8.27	0.14
R511	HD:511	681	8	110	8	1.21	1.00	13.33	0.08
R520	HD:520	1,516	22	171	28	1.45	1.25	7.75	0.16
R530	HD:530,590	4,296	66	333	72	1.54	1.08	5.04	0.21
R540	HD:540	609	11	91	19	1.81	1.75	8.25	0.21
R560	HD:560	1,174	11	41	11	0.94	1.00	3.75	0.27
R580	HD:580	1,527	22	99	47	1.44	2.13	4.50	0.47
R599	HD:R5 UNKN	74	3	11	3	3.70	1.00	4.00	0.25
R600	HD:600'S (NOT 680,690)	7,255	11	52	14	0.15	1.25	4.75	0.26
R680	HD:680,690	2,348	14	130	28	0.59	2.00	9.40	0.21
R699	HD:R6 UNKN	8	0	0	0	0.00	-9.90	-9.90	-9.00
R700	HD:700'S	13,325	85	653	110	0.64	1.29	7.65	0.17
R799	HD:R7 UNKN	22	0	0	0	0.00	-9.90	-9.90	-9.00
R999	HD:REGION UNKN	118	3	14	11	2.33	4.00	5.00	0.80

TABLE 4: ADDITIONAL LION OBSERVATION STATISTICS

Thu Oct 31 page 1

Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Additional Lion Observation Statistics
By Deer Hunting District

Location	Deer Hunters	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Lions/ Observ	ObsDays /Observ	Lions/ ObsDay
100	2,568	116	1,177	190	4.51	1.64	10.17	0.16
101	2,375	74	923	124	3.13	1.67	12.41	0.13
102	3,279	80	639	105	2.44	1.31	8.00	0.16
103	3,469	77	697	116	2.22	1.50	9.04	0.17
104	1,678	47	350	80	2.79	1.71	7.47	0.23
110	1,590	39	212	50	2.43	1.29	5.50	0.23
120	2,408	58	581	77	2.40	1.33	10.05	0.13
121	2,105	30	400	30	1.44	1.00	13.18	0.08
122	2,039	52	355	69	2.57	1.32	6.79	0.19
123	416	6	88	6	1.32	1.00	16.00	0.06
124	457	0	0	0	0.00	-9.90	-9.90	-9.00
130	1,786	30	265	58	1.70	1.91	8.73	0.22
132	1,157	11	113	17	0.95	1.50	10.25	0.15
140	430	8	33	8	1.92	1.00	4.00	0.25
141	146	3	6	3	1.89	1.00	2.00	0.50
150	63	0	0	0	0.00	-9.90	-9.90	-9.00
151	25	3	19	3	11.11	1.00	7.00	0.14
170	805	0	0	0	0.00	-9.90	-9.90	-9.00
199	61	3	28	3	4.55	1.00	10.00	0.10
200	700	11	174	14	1.57	1.25	15.75	0.08
201	1,755	44	518	80	2.51	1.81	11.75	0.15
202	1,516	30	358	33	2.00	1.09	11.82	0.09
203	1,237	61	614	99	4.90	1.64	10.14	0.16
204	1,799	36	193	44	1.99	1.23	5.38	0.23
210	907	30	289	55	3.34	1.82	9.55	0.19
211	226	14	80	19	6.10	1.40	5.80	0.24
212	1,091	22	278	33	2.02	1.50	12.63	0.12
213	344	6	61	6	1.60	1.00	11.00	0.09
214	281	0	0	0	0.00	-9.90	-9.90	-9.00
215	738	19	190	25	2.61	1.29	9.86	0.13
216	226	6	83	11	2.44	2.00	15.00	0.13
240	2,053	33	284	47	1.61	1.42	8.58	0.17
250	1,116	41	485	61	3.70	1.47	11.73	0.13
260	1,576	11	242	11	0.70	1.00	22.00	0.05
261	783	14	96	33	1.76	2.40	7.00	0.34
270	1,874	22	240	25	1.18	1.13	10.88	0.10
280	141	6	14	8	3.92	1.50	2.50	0.60
281	1,011	44	501	55	4.36	1.25	11.37	0.11
282	182	6	33	6	3.03	1.00	6.00	0.17
283	1,317	28	146	36	2.09	1.30	5.30	0.25
284	165	6	55	8	3.33	1.50	10.00	0.15
285	1,821	58	336	88	3.18	1.52	5.81	0.26
290	179	0	0	0	0.00	-9.90	-9.90	-9.00
291	526	11	83	14	2.09	1.25	7.50	0.17
292	1,865	58	380	91	3.10	1.57	6.57	0.24
293	904	19	163	30	2.13	1.57	8.43	0.19
299	72	6	72	6	7.69	1.00	13.00	0.08
300	234	6	39	6	2.35	1.00	7.00	0.14
301	995	8	124	17	0.83	2.00	15.00	0.13
302	295	6	33	6	1.87	1.00	6.00	0.17
310	209	3	6	3	1.32	1.00	2.00	0.50
311	1,750	11	124	14	0.63	1.25	11.25	0.11
312	1,637	28	424	36	1.68	1.30	15.40	0.08
313	284	6	50	6	1.94	1.00	9.00	0.11
314	609	8	36	8	1.36	1.00	4.33	0.23
315	1,722	14	66	25	0.80	1.80	4.80	0.38
316	33	3	8	3	8.33	1.00	3.00	0.33
317	595	6	102	6	0.93	1.00	18.50	0.05
318	350	8	77	14	2.36	1.67	9.33	0.18
319	637	11	116	11	1.73	1.00	10.50	0.10

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Additional Lion Observation Statistics
By Deer Hunting District

Location	Deer Hunters	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Lions/ Observ	ObsDays /Observ	Lions/ ObsDay
320	857	19	196	36	2.25	1.86	10.14	0.18
321	350	6	113	8	1.57	1.50	20.50	0.07
322	1,196	14	91	25	1.15	1.80	6.60	0.27
323	220	8	25	22	3.75	2.67	3.00	0.89
324	455	3	14	3	0.61	1.00	5.00	0.20
325	727	6	22	6	0.76	1.00	4.00	0.25
326	829	6	61	8	0.66	1.50	11.00	0.14
327	196	0	0	0	0.00	-9.90	-9.90	-9.00
328	198	6	44	8	2.78	1.50	8.00	0.19
329	482	6	36	6	1.14	1.00	6.50	0.15
330	601	6	25	6	0.92	1.00	4.50	0.22
331	1,152	22	99	39	1.91	1.75	4.50	0.39
332	408	3	6	3	0.68	1.00	2.00	0.50
333	1,791	28	165	33	1.54	1.20	6.00	0.20
335	598	8	99	19	1.38	2.33	12.00	0.19
339	683	3	33	8	0.40	3.00	12.00	0.25
340	1,518	14	165	19	0.91	1.40	12.00	0.12
341	347	8	96	11	2.38	1.33	11.67	0.11
343	664	14	135	25	2.07	1.80	9.80	0.18
350	444	8	55	14	1.86	1.67	6.67	0.25
360	526	0	0	0	0.00	-9.90	-9.90	-9.00
361	116	0	0	0	0.00	-9.90	-9.90	-9.00
362	130	6	14	6	4.26	1.00	2.50	0.40
370	248	6	14	8	2.22	1.50	2.50	0.60
380	2,039	30	430	50	1.49	1.64	14.18	0.12
390	204	0	0	0	0.00	-9.90	-9.90	-9.00
391	722	6	94	17	0.76	3.00	17.00	0.18
392	1,083	30	306	52	2.80	1.73	10.09	0.17
393	1,110	14	80	17	1.24	1.20	5.80	0.21
399	33	0	0	0	0.00	-9.90	-9.90	-9.00
400	1,582	3	6	8	0.17	3.00	2.00	1.50
401	1,414	3	17	6	0.19	2.00	6.00	0.33
403	171	3	8	3	1.61	1.00	3.00	0.33
404	2,102	8	52	17	0.39	2.00	6.33	0.32
405	1,306	6	14	6	0.42	1.00	2.50	0.40
406	758	3	6	6	0.36	2.00	2.00	1.00
410	857	6	11	8	0.64	1.50	2.00	0.75
411	2,879	50	700	91	1.72	1.83	14.11	0.13
412	1,766	17	105	28	0.94	1.67	6.33	0.26
413	2,017	17	138	17	0.82	1.00	8.33	0.12
415	52	0	0	0	0.00	-9.90	-9.90	-9.00
416	948	14	105	19	1.45	1.40	7.60	0.18
417	686	17	132	30	2.41	1.83	8.00	0.23
418	959	6	14	6	0.57	1.00	2.50	0.40
419	650	6	11	6	0.85	1.00	2.00	0.50
420	149	3	11	3	1.85	1.00	4.00	0.25
421	485	6	30	8	1.14	1.50	5.50	0.27
422	314	8	28	14	2.63	1.67	3.33	0.50
423	281	8	39	11	2.94	1.33	4.67	0.29
424	168	0	0	0	0.00	-9.90	-9.90	-9.00
425	212	14	237	36	6.49	2.60	17.20	0.15
426	986	0	0	0	0.00	-9.90	-9.90	-9.00
432	1,279	14	66	33	1.08	2.40	4.80	0.50
441	504	0	0	0	0.00	-9.90	-9.90	-9.00
442	270	0	0	0	0.00	-9.90	-9.90	-9.00
444	493	6	80	6	1.12	1.00	14.50	0.07
445	1,761	25	212	36	1.41	1.44	8.56	0.17
446	526	14	146	19	2.62	1.40	10.60	0.13
447	2,411	8	135	8	0.34	1.00	16.33	0.06
448	661	6	36	11	0.83	2.00	6.50	0.31
449	358	8	74	8	2.31	1.00	9.00	0.11

TABLE 4: ADDITIONAL LION OBSERVATION STATISTICS

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Montana Fish Wildlife and Parks
2001 Mountain Lion Sightings while Deer Hunting (MT Residents)
Additional Lion Observation Statistics
By Deer Hunting District

Location	Deer Hunters	Hunter Observ	Observ Days	Lions Seen	Percent Observ	Lions/ Observ	ObsDays /Observ	Lions/ ObsDay
450	430	3	8	3	0.64	1.00	3.00	0.33
452	218	0	0	0	0.00	-9.90	-9.90	-9.00
454	386	17	157	28	4.29	1.67	9.50	0.18
455	141	0	0	0	0.00	-9.90	-9.90	-9.00
471	634	6	22	6	0.87	1.00	4.00	0.25
499	124	3	14	3	2.22	1.00	5.00	0.20
500	1,686	3	11	3	0.16	1.00	4.00	0.25
502	1,670	17	96	28	0.99	1.67	5.83	0.29
510	526	30	251	36	5.76	1.18	8.27	0.14
511	681	8	110	8	1.21	1.00	13.33	0.08
520	1,516	22	171	28	1.45	1.25	7.75	0.16
530	1,518	25	110	28	1.63	1.11	4.44	0.25
540	609	11	91	19	1.81	1.75	8.25	0.21
560	1,174	11	41	11	0.94	1.00	3.75	0.27
570	1,662	28	292	44	1.66	1.60	10.60	0.15
575	2,364	33	146	44	1.40	1.33	4.42	0.30
580	1,527	22	99	47	1.44	2.13	4.50	0.47
590	2,907	41	223	44	1.42	1.07	5.40	0.20
599	74	3	11	3	3.70	1.00	4.00	0.25
600	931	0	0	0	0.00	-9.90	-9.90	-9.00
610	559	0	0	0	0.00	-9.90	-9.90	-9.00
611	513	6	17	8	1.08	1.50	3.00	0.50
620	592	0	0	0	0.00	-9.90	-9.90	-9.00
621	270	0	0	0	0.00	-9.90	-9.90	-9.00
622	240	0	0	0	0.00	-9.90	-9.90	-9.00
623	132	0	0	0	0.00	-9.90	-9.90	-9.00
630	975	0	0	0	0.00	-9.90	-9.90	-9.00
631	157	0	0	0	0.00	-9.90	-9.90	-9.00
632	160	0	0	0	0.00	-9.90	-9.90	-9.00
640	887	0	0	0	0.00	-9.90	-9.90	-9.00
641	187	0	0	0	0.00	-9.90	-9.90	-9.00
650	810	3	28	3	0.34	1.00	10.00	0.10
651	733	3	8	3	0.38	1.00	3.00	0.33
652	171	0	0	0	0.00	-9.90	-9.90	-9.00
670	747	0	0	0	0.00	-9.90	-9.90	-9.00
680	466	3	19	3	0.59	1.00	7.00	0.14
690	1,929	11	110	25	0.57	2.25	10.00	0.23
699	8	0	0	0	0.00	-9.90	-9.90	-9.00
700	2,408	11	77	11	0.46	1.00	7.00	0.14
701	2,695	19	176	28	0.72	1.43	9.14	0.16
702	1,623	11	33	19	0.68	1.75	3.00	0.58
703	2,659	11	110	14	0.41	1.25	10.00	0.13
704	2,855	22	141	22	0.77	1.00	6.37	0.16
705	2,097	14	116	17	0.66	1.20	8.40	0.14
799	22	0	0	0	0.00	-9.90	-9.90	-9.00
999	118	3	14	11	2.33	4.00	5.00	0.80

Appendix A

2001 Mountain Lion Management Areas, Regulations/Quota Units, and Hunting Districts

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2001 Mountain Lion Hunting Districts Table, Sorted by Region-MgmtArea

Region	Mgmt Area	Mgmt Area Name	Hunting District	Regs Unit	Regs Unit Name
1	M1A	CABINET-YAAK	100	R100	HD:100
			104	R104	HD:104
	M1B	CLARK FORK	121	R121	HD:121
			123	R123	HD:123
			124	R124	HD:124
	M1C	SALISH	101	R101	HD:101
			102	R102	HD:102
			103	R103	HD:103
			120	R120	HD:120
			122	R122	HD:122
	M1D	BOB MARSHALL-MISSIONS	130	R130	HD:130
			132	R132	HD:132,170
			140	R140	HD:140
			141	R141	HD:141
			150	R150	HD:150,151
			151	R150	HD:150,151
	M1E	WHITEFISH	110	R110	HD:110
	M1F	URBAN	170	R132	HD:132,170
	M1U	REGION 1 UNKNOWN	199	R199	HD:R1 UNKN
2	M2A	LOWER CLARK FORK	200	R200	HD:200,201
			201	R200	HD:200,201
			202	R202	HD:202,203
			203	R202	HD:202,203
	M2B	BITTERROOT	204	R204	HD:204,260,261
			240	R240	HD:240
			250	R250	HD:250
			260	R204	HD:204,260,261
			261	R204	HD:204,260,261
			270	R270	HD:270
	M2C	ROCK CR-DEERLODGE	210	R210	HD:210,211,216
			211	R210	HD:210,211,216
			212	R212	HD:212,215
			213	R213	HD:213,214
			214	R213	HD:213,214
			215	R212	HD:212,215
			216	R210	HD:210,211,216
	M2D	BLACKFOOT	280	R280	HD:280,281,284,293
			281	R280	HD:280,281,284,293
			282	R282	HD:282
			283	R283	HD:283,285
			284	R280	HD:280,281,284,293
			285	R283	HD:283,285
			290	R290	HD:290,291,292
			291	R290	HD:290,291,292
			292	R290	HD:290,291,292
			293	R280	HD:280,281,284,293
	M2U	REGION 2 UNKNOWN	299	R299	HD:R2 UNKN

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2001 Mountain Lion Hunting Districts Table, Sorted by Region-MgmtArea

Region	Mgmt Area	Mgmt Area Name	Hunting District	Regs Unit	Regs Unit Name
3	M3A	BIGHOLE	319	R319	HD:319,341
			321	R321	HD:321,331,332
			331	R321	HD:321,331,332
			332	R321	HD:321,331,332
			340	R340	HD:340
			341	R319	HD:319,341
	M3B	GRAVELLYS-PIONEERS	300	R300	HD:300,302,328,329
			302	R300	HD:300,302,328,329
			320	R320	HD:320,333
			322	R322	HD:322,326,330
			323	R323	HD:323,324,325,327
			324	R323	HD:323,324,325,327
			325	R323	HD:323,324,325,327
			326	R322	HD:322,326,330
			327	R323	HD:323,324,325,327
			328	R300	HD:300,302,328,329
			329	R300	HD:300,302,328,329
			330	R322	HD:322,326,330
			333	R320	HD:320,333
	M3C	YELLOWSTONE	301	R301	HD:301
			310	R310	HD:310,311,360,361,362
			311	R310	HD:310,311,360,361,362
			313	R313	HD:313,316
			314	R314	HD:314
			316	R313	HD:313,316
			317	R317	HD:317
			360	R310	HD:310,311,360,361,362
			361	R310	HD:310,311,360,361,362
			362	R310	HD:310,311,360,361,362
	M3D	BELTS-BRIDGERS-ELKHORNS	312	R312	HD:312,393
			315	R315	HD:315
			318	R318	HD:318,350
			335	R335	HD:335,339,343
			339	R335	HD:335,339,343
			343	R335	HD:335,339,343
			350	R318	HD:318,350
			370	R370	HD:370,380
			380	R370	HD:370,380
			390	R390	HD:390,391,392
			391	R390	HD:390,391,392
			392	R390	HD:390,391,392
			393	R312	HD:312,393
	M3U	REGION 3 UNKNOWN	399	R399	HD:R3 UNKN
4	M4A	EAST FRONT	415	R400	HD:400,401,403,406,415,441
			421	R404	HD:404,421,444,450
			422	R422	HD:422,423,424,425,442
			423	R422	HD:422,423,424,425,442
			424	R422	HD:422,423,424,425,442
			425	R422	HD:422,423,424,425,442
			441	R400	HD:400,401,403,406,415,441
			442	R422	HD:422,423,424,425,442
			444	R404	HD:404,421,444,450
			450	R404	HD:404,421,444,450

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2001 Mountain Lion Hunting Districts Table, Sorted by Region-MgmtArea

Region	Mgmt Area	Mgmt Area Name	Hunting District	Regs Unit	Regs Unit Name
4	M4B	MOUNTAIN-FOOTHILLS	411	R411	HD:411,412
			412	R411	HD:411,412
			413	R413	HD:413,432
			416	R416	HD:416,446,449,452,454
			418	R418	HD:418,420,448
			420	R418	HD:418,420,448
			432	R413	HD:413,432
			445	R445	HD:445,455
			446	R416	HD:416,446,449,452,454
			448	R418	HD:418,420,448
			449	R416	HD:416,446,449,452,454
			452	R416	HD:416,446,449,452,454
			454	R416	HD:416,446,449,452,454
			455	R445	HD:445,455
	M4C	PRAIRE-AGRICULTURE	400	R400	HD:400,401,403,406,415,441
			401	R400	HD:400,401,403,406,415,441
			403	R400	HD:400,401,403,406,415,441
			404	R404	HD:404,421,444,450
			405	R405	HD:405,447,471
			406	R400	HD:400,401,403,406,415,441
			410	R410	HD:410,417,419,426
			417	R410	HD:410,417,419,426
			419	R410	HD:410,417,419,426
			426	R410	HD:410,417,419,426
			447	R405	HD:405,447,471
			471	R405	HD:405,447,471
	M4U	REGION 4 UNKNOWN	499	R499	HD:R4 UNKN
5	M5A	BEARTOOTH FACE	520	R520	HD:520
			560	R560	HD:560
	M5B	MOUNTAIN FOOTHILLS	510	R510	HD:510
			511	R511	HD:511
			540	R540	HD:540
			580	R580	HD:580
	M5C	PRAIRE-AGRICULTURE	500	R500	HD:500,570
			502	R502	HD:502,575
			530	R530	HD:530,590
			570	R500	HD:500,570
			575	R502	HD:502,575
			590	R530	HD:530,590
	M5U	REGION 5 UNKNOWN	599	R599	HD:R5 UNKN
6	M6A	REGION 6 DISTRICTS	600	R600	HD:600'S (NOT 680,690)
			610	R600	HD:600'S (NOT 680,690)
			611	R600	HD:600'S (NOT 680,690)
			620	R600	HD:600'S (NOT 680,690)
			621	R600	HD:600'S (NOT 680,690)
			622	R600	HD:600'S (NOT 680,690)
			623	R600	HD:600'S (NOT 680,690)
			630	R600	HD:600'S (NOT 680,690)
			631	R600	HD:600'S (NOT 680,690)
			632	R600	HD:600'S (NOT 680,690)
			640	R600	HD:600'S (NOT 680,690)
			641	R600	HD:600'S (NOT 680,690)
			650	R600	HD:600'S (NOT 680,690)
			651	R600	HD:600'S (NOT 680,690)
			652	R600	HD:600'S (NOT 680,690)
			670	R600	HD:600'S (NOT 680,690)
			680	R680	HD:680,690
			690	R680	HD:680,690
	M6U	REGION 6 UNKNOWN	699	R699	HD:R6 UNKN

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2001 Mountain Lion Hunting Districts Table, Sorted by Region-MgmtArea

Region	Mgmt Area	Mgmt Area Name	Hunting District	Regs Unit	Regs Unit Name
7	M7A	REGION 7 DISTRICTS	700	R700	HD:700'S
			701	R700	HD:700'S
			702	R700	HD:700'S
			703	R700	HD:700'S
			704	R700	HD:700'S
			705	R700	HD:700'S
	M7U	REGION 7 UNKNOWN	799	R799	HD:R7 UNKN
9	M9U	REGION UNKNOWN	999	R999	HD:REGION UNKN

Appendix B

2001 Mountain Lion Sightings Survey Response Data Non-Expanded Summary Statistics

State and Regional
By Lion Management Area
By Lion Regulations/Quota Unit
By Hunting District

Thu Oct 31 page 1

2001 Deer Hunter-Mountain Lion Sighting Survey
Response Data Summary Non-expanded Statistics

Location	Responding Hunters	District Hunted	Hunter Days	Hunter Observ	Distric Observ	Observ Days	Lions Seen	Percent Observ
STA	42,652	56,737	291,098	825	848	7,472	1,254	1.93
R01	7,491	9,747	57,138	225	231	2,136	340	3.00
R02	7,249	9,583	61,340	225	232	2,166	340	3.10
R03	8,645	10,625	57,139	140	142	1,314	217	1.62
R04	9,046	11,228	47,721	107	109	948	174	1.18
R05	5,774	6,501	26,314	92	92	600	124	1.59
R06	3,418	3,799	16,992	9	9	66	15	0.26
R07	4,844	5,211	24,194	31	32	237	40	0.64
R09	43	43	260	1	1	5	4	2.33
M1A	1,327	1,541	9,494	57	59	554	98	4.30
M1B	1,012	1,081	8,105	13	13	177	13	1.28
M1C	4,310	4,925	27,873	123	124	1,160	178	2.85
M1D	1,229	1,309	7,149	19	20	158	32	1.55
M1E	577	577	2,900	14	14	77	18	2.43
M1F	292	292	1,522	0	0	0	0	0.00
M1U	22	22	95	1	1	10	1	4.55
M2A	1,613	1,890	12,103	51	53	604	82	3.16
M2B	2,756	3,339	22,454	57	57	559	80	2.07
M2C	1,218	1,384	9,758	34	35	356	54	2.79
M2D	2,546	2,944	16,836	84	85	621	122	3.30
M2U	26	26	189	2	2	26	2	7.69
M3A	1,413	1,601	10,157	23	23	216	33	1.63
M3B	2,598	2,933	14,332	40	40	272	59	1.54
M3C	1,712	1,904	9,495	18	18	168	22	1.05
M3D	3,843	4,175	23,114	61	61	658	103	1.59
M3U	12	12	41	0	0	0	0	0.00
M4A	1,063	1,165	4,945	16	16	153	28	1.51
M4B	4,467	5,098	22,965	67	68	640	108	1.50
M4C	4,467	4,920	19,624	24	24	150	37	0.54
M4U	45	45	187	1	1	5	1	2.22
M5A	969	976	4,031	12	12	77	14	1.24
M5B	1,172	1,213	4,736	26	26	200	40	2.22
M5C	3,991	4,285	17,431	53	53	319	69	1.33
M5U	27	27	116	1	1	4	1	3.70
M6A	3,415	3,796	16,983	9	9	66	15	0.26
M6U	3	3	9	0	0	0	0	0.00
M7A	4,836	5,203	24,159	31	32	237	40	0.64
M7U	8	8	35	0	0	0	0	0.00
M9U	43	43	260	1	1	5	4	2.33
R100	932	932	5,697	42	42	427	69	4.51
R101	862	862	5,538	27	27	335	45	3.13
R102	1,190	1,190	6,160	29	29	232	38	2.44
R103	1,259	1,259	7,210	28	28	253	42	2.22
R104	609	609	3,797	17	17	127	29	2.79
R110	577	577	2,900	14	14	77	18	2.43
R120	874	874	4,561	21	21	211	28	2.40
R121	764	764	5,646	11	11	145	11	1.44
R122	740	740	4,404	19	19	129	25	2.57
R123	151	151	1,025	2	2	32	2	1.32
R124	166	166	1,434	0	0	0	0	0.00
R130	648	648	3,302	11	11	96	21	1.70
R132	685	712	4,161	4	4	41	6	0.58
R140	156	156	728	3	3	12	3	1.92
R141	53	53	301	1	1	2	1	1.89
R150	32	32	179	1	1	7	1	3.13
R199	22	22	95	1	1	10	1	4.55

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2001 Deer Hunter-Mountain Lion Sighting Survey
Response Data Summary Non-expanded Statistics

Location	Responding Hunters	District Hunted	Hunter Days	Hunter Observ	Distric Observ	Observ Days	Lions Seen	Percent Observ
R200	850	891	6,000	20	20	251	34	2.35
R202	962	999	6,103	32	33	353	48	3.33
R204	1,417	1,509	10,776	22	22	193	32	1.55
R210	468	493	3,044	18	18	164	31	3.85
R212	627	664	5,141	15	15	170	21	2.39
R213	210	227	1,573	2	2	22	2	0.95
R240	745	745	4,450	12	12	103	17	1.61
R250	405	405	3,068	15	15	176	22	3.70
R270	680	680	4,160	8	8	87	9	1.18
R280	736	806	4,877	27	27	266	37	3.67
R282	66	66	307	2	2	12	2	3.03
R283	1,081	1,139	5,920	31	31	175	45	2.87
R290	904	933	5,732	25	25	168	38	2.77
R299	26	26	189	2	2	26	2	7.69
R300	404	439	2,307	8	8	55	9	1.98
R301	361	361	1,941	3	3	45	6	0.83
R310	935	991	5,049	7	7	52	8	0.75
R312	955	997	4,999	15	15	183	19	1.57
R313	115	115	506	3	3	21	3	2.61
R314	221	221	1,056	3	3	13	3	1.36
R315	625	625	2,463	5	5	24	9	0.80
R317	216	216	943	2	2	37	2	0.93
R318	279	288	2,248	6	6	48	10	2.15
R319	342	357	2,354	7	7	77	8	2.05
R320	945	961	4,715	17	17	131	25	1.80
R321	651	693	4,397	11	11	79	18	1.69
R322	905	953	4,238	9	9	64	14	0.99
R323	552	580	3,072	6	6	22	11	1.09
R335	687	706	4,474	9	9	97	19	1.31
R340	551	551	3,406	5	5	60	7	0.91
R370	821	830	4,534	13	13	161	21	1.58
R390	703	729	4,396	13	13	145	25	1.85
R399	12	12	41	0	0	0	0	0.00
R400	1,496	1,626	6,874	4	4	13	8	0.27
R404	1,231	1,274	5,090	8	8	62	12	0.65
R405	1,493	1,579	6,050	7	7	62	7	0.47
R410	1,091	1,154	4,610	10	10	56	16	0.92
R411	1,578	1,686	7,903	24	24	292	43	1.52
R413	1,141	1,196	5,189	11	11	74	18	0.96
R416	797	884	4,225	18	19	175	27	2.26
R418	594	642	3,130	5	5	22	7	0.84
R422	424	452	1,945	11	11	110	22	2.59
R445	685	690	2,518	9	9	77	13	1.31
R499	45	45	187	1	1	5	1	2.22
R500	1,195	1,215	4,447	11	11	110	17	0.92
R502	1,432	1,464	6,240	18	18	88	26	1.26
R510	191	191	1,003	11	11	91	13	5.76
R511	247	247	812	3	3	40	3	1.21
R520	550	550	2,387	8	8	62	10	1.45
R530	1,559	1,606	6,744	24	24	121	26	1.54
R540	221	221	929	4	4	33	7	1.81
R560	426	426	1,644	4	4	15	4	0.94
R580	554	554	1,992	8	8	36	17	1.44
R599	27	27	116	1	1	4	1	3.70
R600	2,633	2,927	13,250	4	4	19	5	0.15
R680	852	869	3,733	5	5	47	10	0.59
R699	3	3	9	0	0	0	0	0.00
R700	4,836	5,203	24,159	31	32	237	40	0.64
R799	8	8	35	0	0	0	0	0.00
R999	43	43	260	1	1	5	4	2.33

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2001 Deer Hunter-Mountain Lion Sighting Survey
Response Data Summary Non-expanded Statistics

Location	Responding Hunters	District Hunted	Hunter Days	Hunter Observ	Distric Observ	Observ Days	Lions Seen	Percent Observ
100	932	932	5,697	42	42	427	69	4.51
101	862	862	5,538	27	27	335	45	3.13
102	1,190	1,190	6,160	29	29	232	38	2.44
103	1,259	1,259	7,210	28	28	253	42	2.22
104	609	609	3,797	17	17	127	29	2.79
110	577	577	2,900	14	14	77	18	2.43
120	874	874	4,561	21	21	211	28	2.40
121	764	764	5,646	11	11	145	11	1.44
122	740	740	4,404	19	19	129	25	2.57
123	151	151	1,025	2	2	32	2	1.32
124	166	166	1,434	0	0	0	0	0.00
130	648	648	3,302	11	11	96	21	1.70
132	420	420	2,639	4	4	41	6	0.95
140	156	156	728	3	3	12	3	1.92
141	53	53	301	1	1	2	1	1.89
150	23	23	126	0	0	0	0	0.00
151	9	9	53	1	1	7	1	11.11
170	292	292	1,522	0	0	0	0	0.00
199	22	22	95	1	1	10	1	4.55
200	254	254	1,755	4	4	63	5	1.57
201	637	637	4,245	16	16	188	29	2.51
202	550	550	3,654	11	11	130	12	2.00
203	449	449	2,449	22	22	223	36	4.90
204	653	653	3,877	13	13	70	16	1.99
210	329	329	1,978	11	11	105	20	3.34
211	82	82	638	5	5	29	7	6.10
212	396	396	3,100	8	8	101	12	2.02
213	125	125	869	2	2	22	2	1.60
214	102	102	704	0	0	0	0	0.00
215	268	268	2,041	7	7	69	9	2.61
216	82	82	428	2	2	30	4	2.44
240	745	745	4,450	12	12	103	17	1.61
250	405	405	3,068	15	15	176	22	3.70
260	572	572	5,145	4	4	88	4	0.70
261	284	284	1,754	5	5	35	12	1.76
270	680	680	4,160	8	8	87	9	1.18
280	51	51	281	2	2	5	3	3.92
281	367	367	2,295	16	16	182	20	4.36
282	66	66	307	2	2	12	2	3.03
283	478	478	2,468	10	10	53	13	2.09
284	60	60	346	2	2	20	3	3.33
285	661	661	3,452	21	21	122	32	3.18
290	65	65	495	0	0	0	0	0.00
291	191	191	1,079	4	4	30	5	2.09
292	677	677	4,158	21	21	138	33	3.10
293	328	328	1,955	7	7	59	11	2.13
299	26	26	189	2	2	26	2	7.69
300	85	85	464	2	2	14	2	2.35
301	361	361	1,941	3	3	45	6	0.83
302	107	107	460	2	2	12	2	1.87
310	76	76	316	1	1	2	1	1.32
311	635	635	3,233	4	4	45	5	0.63
312	594	594	3,266	10	10	154	13	1.68
313	103	103	472	2	2	18	2	1.94
314	221	221	1,056	3	3	13	3	1.36
315	625	625	2,463	5	5	24	9	0.80
316	12	12	34	1	1	3	1	8.33
317	216	216	943	2	2	37	2	0.93
318	127	127	1,041	3	3	28	5	2.36
319	231	231	1,499	4	4	42	4	1.73
320	311	311	1,723	7	7	71	13	2.25
321	127	127	684	2	2	41	3	1.57
322	434	434	1,622	5	5	33	9	1.15
323	80	80	395	3	3	9	8	3.75
324	165	165	969	1	1	5	1	0.61
325	264	264	1,313	2	2	8	2	0.76

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2001 Deer Hunter-Mountain Lion Sighting Survey
Response Data Summary Non-expanded Statistics

Location	Responding Hunters	District Hunted	Hunter Days	Hunter Observ	Distric Observ	Observ Days	Lions Seen	Percent Observ
326	301	301	1,430	2	2	22	3	0.66
327	71	71	395	0	0	0	0	0.00
328	72	72	409	2	2	16	3	2.78
329	175	175	974	2	2	13	2	1.14
330	218	218	1,186	2	2	9	2	0.92
331	418	418	2,884	8	8	36	14	1.91
332	148	148	829	1	1	2	1	0.68
333	650	650	2,992	10	10	60	12	1.54
335	217	217	1,440	3	3	36	7	1.38
339	248	248	1,440	1	1	12	3	0.40
340	551	551	3,406	5	5	60	7	0.91
341	126	126	855	3	3	35	4	2.38
343	241	241	1,594	5	5	49	9	2.07
350	161	161	1,207	3	3	20	5	1.86
360	191	191	843	0	0	0	0	0.00
361	42	42	448	0	0	0	0	0.00
362	47	47	209	2	2	5	2	4.26
370	90	90	465	2	2	5	3	2.22
380	740	740	4,069	11	11	156	18	1.49
390	74	74	320	0	0	0	0	0.00
391	262	262	1,472	2	2	34	6	0.76
392	393	393	2,604	11	11	111	19	2.80
393	403	403	1,733	5	5	29	6	1.24
399	12	12	41	0	0	0	0	0.00
400	574	574	2,297	1	1	2	3	0.17
401	513	513	2,100	1	1	6	2	0.19
403	62	62	204	1	1	3	1	1.61
404	763	763	3,153	3	3	19	6	0.39
405	474	474	1,520	2	2	5	2	0.42
406	275	275	1,210	1	1	2	2	0.36
410	311	311	1,314	2	2	4	3	0.64
411	1,045	1,045	5,002	18	18	254	33	1.72
412	641	641	2,901	6	6	38	10	0.94
413	732	732	3,020	6	6	50	6	0.82
415	19	19	68	0	0	0	0	0.00
416	344	344	1,635	5	5	38	7	1.45
417	249	249	1,081	6	6	48	11	2.41
418	348	348	1,574	2	2	5	2	0.57
419	236	236	903	2	2	4	2	0.85
420	54	54	260	1	1	4	1	1.85
421	176	176	626	2	2	11	3	1.14
422	114	114	467	3	3	10	5	2.63
423	102	102	371	3	3	14	4	2.94
424	61	61	320	0	0	0	0	0.00
425	77	77	297	5	5	86	13	6.49
426	358	358	1,312	0	0	0	0	0.00
432	464	464	2,169	5	5	24	12	1.08
441	183	183	995	0	0	0	0	0.00
442	98	98	490	0	0	0	0	0.00
444	179	179	764	2	2	29	2	1.12
445	639	639	2,301	9	9	77	13	1.41
446	191	191	906	5	5	53	7	2.62
447	875	875	3,677	3	3	49	3	0.34
448	240	240	1,296	2	2	13	4	0.83
449	130	130	591	3	3	27	3	2.31
450	156	156	547	1	1	3	1	0.64
452	79	79	350	0	0	0	0	0.00
454	140	140	743	6	6	57	10	4.29
455	51	51	217	0	0	0	0	0.00
471	230	230	853	2	2	8	2	0.87
499	45	45	187	1	1	5	1	2.22
500	612	612	2,215	1	1	4	1	0.16
502	606	606	2,635	6	6	35	10	0.99
510	191	191	1,003	11	11	91	13	5.76
511	247	247	812	3	3	40	3	1.21
520	550	550	2,387	8	8	62	10	1.45

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2001 Deer Hunter-Mountain Lion Sighting Survey
Response Data Summary Non-expanded Statistics

Location	Responding Hunters	District Hunted	Hunter Days	Hunter Observ	Distric Observ	Observ Days	Lions Seen	Percent Observ
530	551	551	2,252	9	9	40	10	1.63
540	221	221	929	4	4	33	7	1.81
560	426	426	1,644	4	4	15	4	0.94
570	603	603	2,232	10	10	106	16	1.66
575	858	858	3,605	12	12	53	16	1.40
580	554	554	1,992	8	8	36	17	1.44
590	1,055	1,055	4,492	15	15	81	16	1.42
599	27	27	116	1	1	4	1	3.70
600	338	338	1,458	0	0	0	0	0.00
610	203	203	804	0	0	0	0	0.00
611	186	186	667	2	2	6	3	1.08
620	215	215	824	0	0	0	0	0.00
621	98	98	524	0	0	0	0	0.00
622	87	87	403	0	0	0	0	0.00
623	48	48	222	0	0	0	0	0.00
630	354	354	1,926	0	0	0	0	0.00
631	57	57	255	0	0	0	0	0.00
632	58	58	201	0	0	0	0	0.00
640	322	322	1,598	0	0	0	0	0.00
641	68	68	371	0	0	0	0	0.00
650	294	294	1,219	1	1	10	1	0.34
651	266	266	1,445	1	1	3	1	0.38
652	62	62	214	0	0	0	0	0.00
670	271	271	1,119	0	0	0	0	0.00
680	169	169	664	1	1	7	1	0.59
690	700	700	3,069	4	4	40	9	0.57
699	3	3	9	0	0	0	0	0.00
700	874	874	4,089	4	4	28	4	0.46
701	978	978	4,275	7	7	64	10	0.72
702	589	589	2,606	4	4	12	7	0.68
703	965	965	5,411	4	4	40	5	0.41
704	1,036	1,036	4,454	8	8	51	8	0.77
705	761	761	3,324	5	5	42	6	0.66
799	8	8	35	0	0	0	0	0.00
999	43	43	260	1	1	5	4	2.33

Appendix C

2001 Mountain Lion Sightings
Statistical Estimates
Data File Description

Mountain Lion Sightings While Deer Hunting

Description of Data File of Statistical Estimates

License Year 2001

Montana Fish Wildlife and Parks

Harvest Surveys

October 31, 2002

This document contains a description of the License Year 2001 "Mountain Lion Sightings While Deer Hunting" data file of expanded statistical estimates. This file was exported from the original Oracle data tables used to produce the **2001 Mountain Lion Sightings Report**. An additional data file defines Mountain Lion Management Areas and Regulation/Quota Units by Hunting District. The data sets are distributed in **Comma Separated Value ASCII text files** where character values are quoted and numeric values are not. Numeric values were exported to 2 decimal places. Headers are not included. The data files have the extension ***.Csv**. They are accompanied by ***.sch** files which define the file format and column types. This documentation appears as Appendix C of the 2001 report, and as a stand alone Rich Text Format (rtf) document distributed with the data set (**2001MLionObsStatsData.Rtf**). Descriptions and column definitions for the data file are given below:

DmHu01_021031.Csv –LY2001 Table of Lion Sightings by Deer Hunters Statistics (generated 10/31/2002)

- **Loc (Location)**: **STA**=Statewide; **R01**..**R07,R09**=Regional 1..7,Unknown; **M1A..M9U**=Management Area; **R100..R900**=Regs/Quota Unit; ###=Hunting District (100,101,…), #99=Unknown District within Region. 999=Unknown District and Region. (See included **DmHDist01.Csv** table for Lion Districts, Mgmt Areas, and Regs/Quota Units.)
- **Sort_Loc**: Variable which assists in sorting the records by Location.
- **Exp_Fact (Expansion Factor)**: Number by which survey response summary statistics were expanded to statistical estimates. Number of resident active deer hunters divided by number of valid responses used in analysis from resident active deer hunters.
- **Hunt (Hunters)**: Point estimate of number of resident sportspersons actively hunting deer.
- **Hunt_L (Hunters Lower Bound)**: Lower 80% confidence bound on active deer hunters.
- **Hunt_U (Hunters Upper Bound)**: Upper 80% confidence bound on active deer hunters.
- **DistHunt (Districts Hunted)**: Sum of number of districts reported used by all active deer hunters.
- **HDays (Hunter Days)**: Sum of number of days or partial days spent hunting deer by all hunters.
- **HDays_L (Hunter Days Lower Bound)**: Lower 80% confidence bound on hunter days.
- **HDays_U (Hunter Days Upper Bound)**: Upper 80% confidence bound on hunter days.
- **Obs (Lion Observers)**: Point estimate of number of resident active deer hunters observing a lion.
- **Obs_L (Obs Lower Bound)**: Lower 80% confidence bound on lion observers.
- **Obs_U (Obs Upper Bound)**: Upper 80% confidence bound on lion observers.
- **ODays (Observation Days)**: Sum of deer hunter days for hunts where lion was observed.
- **ODays_L (ODays Lower Bound)**: Lower 80% confidence bound on observation days.
- **ODays_U (ODays Upper Bound)**: Upper 80% confidence bound on observation days.
- **ObsN (Lions Seen)**: Point estimate of number of lion seen by lion observers.
- **ObsN_L (ObsN Lower Bound)**: Lower 80% confidence bound on lions seen.
- **ObsN_U (ObsN Upper Bound)**: Upper 80% confidence bound on lions seen.
- **PctObs (Percent Observers)**: Percent of resident active deer hunters observing a lion.

Various meaningful ratios and percents further describing Mountain Lion sightings by deer hunters can be computed based on these provided statistics. Please refer to the **2001 Mountain Lion Sightings Report** for definitions of these ratios and percents and examples of their use.

DmHDist01.Csv –LY2001 Table of Lion Hunting Districts, Regions, Management Areas, & Regulations Units

- **HDist**: Mountain Lion Hunting District. Same as Deer hunting district.
- **Region**: FWP Administrative Region of district.
- **MgmtArea**: Mountain Lion Management Area of District.
- **MgmtArea_Name**: Descriptive name of Mountain Lion Management Area.
- **RegsUnit**: Mountain Lion Regulations/Quota Unit of District.
- **MgmtArea_Name**: Descriptive name of Mountain Lion Regulations/Quota Unit.

2001 MOUNTAIN LION SIGHTING SURVEY

Interviewers: Please read this introduction if there is a Mountain Lion Sighting label for the individual **and** if this person hunted DEER this past 2001 hunting season (deer survey question 1 is YES).

Introduction: FWP is currently conducting a long-term mountain lion research project. As part of that study effort, we are evaluating different methods of monitoring trends in lion abundance. One method we are testing is to survey deer hunters across the state in regards to the number of lions they observe while hunting deer. You can help by answering the following questions.

Interviewers: Fill out this form if **this person sighted a mountain lion while hunting DEER this past 2001 hunting season** (the answer to question 1 below is **YES**). Place mountain lion label above over "Introduction".

1. **Did you see one or more mountain lions while deer hunting during the 2001 hunting season?** ❍ **YES**
2. **List up to 4 hunting districts where you sighted lions while hunting deer, the total days you hunted, and the total number of lions that you saw.**

Interviewers: The deer hunting district(s) where the respondent sighted the mountain lion(s) should be selected from the hunting districts (and days hunted) you listed on the deer questionnaire (deer questionnaire question 2).

Deer Hunting District Number*	Number Days Hunted for Deer*	Number Lions Observed (1-9)

* as indicated on deer questionnaire

Special Instructions to Interviewers

*Record only reported visual sightings of mountain lions made during the **2001 deer hunting season while hunting deer**. Disregard all other responses (observations made during previous years, while hunting other species such as elk, or observations of tracks, scat, etc.).*

Hunters who have questions about the survey can be directed to Rich DeSimone (444-0358) or Jeff Herbert (444-3940).